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IPCC [Intergovernmental Panel on Climate Change] - WGIII [Working Group III] Nomination Process

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| 002. resume | Robert Stavins resume [PII] [partial] (1 page) | 01/22/1998 | b(6) |

COLLECTION:

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FOLDER TITLE:

IPCC [Intergovernmental Panel on Climate Change] - WGIII [Working Group III]
Nomination Process

2017-1095-F

bg230

RESTRICTION CODES

Presidential Records Act - [44 U.S.C. 2204(a)]

Freedom of Information Act - [5 U.S.C. 552(b)]

P1 National Security Classified Information [(a)(1) of the PRA]
P2 Relating to the appointment to Federal office [(a)(2) of the PRA]
P3 Release would violate a Federal statute [(a)(3) of the PRA]
P4 Release would disclose trade secrets or confidential commercial or financial information [(a)(4) of the PRA]
P5 Release would disclose confidential advice between the President and his advisors, or between such advisors [(a)(5) of the PRA]
P6 Release would constitute a clearly unwarranted invasion of personal privacy [(a)(6) of the PRA]

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b(4) Release would disclose trade secrets or confidential or financial information [(b)(4) of the FOIA]
b(6) Release would constitute a clearly unwarranted invasion of personal privacy [(b)(6) of the FOIA]
b(7) Release would disclose information compiled for law enforcement purposes [(b)(7) of the FOIA]
b(8) Release would disclose information concerning the regulation of financial institutions [(b)(8) of the FOIA]
b(9) Release would disclose geological or geophysical information concerning wells [(b)(9) of the FOIA]

C. Closed in accordance with restrictions contained in donor's deed of gift.

PRM. Personal record misfile defined in accordance with 44 U.S.C. 2201(3).

RR. Document will be reviewed upon request.

IPCC'

Resumes -

unsent

DRAFT
LISTS

Final

U.S. Government Nominations for the IPCC Third Assessment Report:

Working Group II

(*): Possible Convening Lead Author

(-): Hasn't given concurrence

FORESTS AND FORESTRY

Lead Authors: Ron Neilson, USDA/FS
 Daniel Botkin, George Mason U
 Jayant Sathaye, LBNL
 Henry Shugart, U of VA
 Roger Sedjo, Resources for the Future
 Allen Solomon, EPA (*)

Contributing Authors: Robert Dixon, US Country Studies Program
 Robert Mendelsohn, Yale (-)
 Marc Abrams, Penn State U
 Neil Sampson, The Sampson Group
 J.G. Isebrands, USDA/FS
 Peter Groffman, Inst for Environmental Studies
 Olga Krankina, OSU
 Steve McNulty, USFS
 Sandra Brown, U of IL/EPA
 Richard Birdsey, USDA/FS
 James Teeri, University of Michigan
 Thomas Loveland, USGS EROS
 Richard Zepp, EPA/NERL
 Mitchell M. Dubensky, American Forest & Paper
 Virginia Burkett, USGS
 Al Lucier, NCASI

Review editor: Steven Hamburg, Brown U
 Linda Joyce, USDA/FS

AGRICULTURE AND FOOD SECURITY

Lead Authors: Richard Adams, OSU
 Otto Doering, Purdue U
 John Reilly, USDA (-)

Contributing Authors: Kenneth Kunkel, Illinois State Water Survey
 Hartwell Allen, USDA/ARS
 Ronald Sass, Rice U
 David Campbell, Mich State U
 Peter Groffman, Inst for Environmental Studies
 Linda Mearns, NCAR (-)
 Hugo Rogers, USDA/ARS
 Keith Paustian, CSU

Stan Wullschleger, ORNL
John Everett, NOAA
Bruce Kimball, USDA
Francisco Tubiello, Columbia University
David Pimentel, Cornell U
Harald Scherm, University of Georgia
David Sherman, Tufts University

Review editor: Norm Rosenberg, PNL
William Easterling, Penn State U
Vern Cole, Colorado State University

RANGELANDS

Lead Authors: Dennis Ojima, CSU/NREL
Jack Morgan, USDA

Contributing Authors: Arvin Mosier, USDA/ARS
David Campbell, Mich State U
Ron Neilson, USDA/FS
Wayne Polley, USDA/ARS
Mark Wertz, USDA/ARS
Richard Zepp, EPA/NERL

Review editor: Steven Hamburg, Brown U
Linda Joyce, USDA/FS

DESERTS

Contributing Authors:

Review Editor: Peter Groffman, IES

SOILS AND LAND DEGRADATION

Lead/Contributing Authors: Hari Eswaran, USDA/Nat Res Cons Div
Peter Groffman, Inst for Environmental Studies
Thomas Loveland, USGS
Hartwell Allen, USDA

Review editor: Steven Hamburg, Brown U
Michael Farrell, ORNL

MOUNTAIN REGIONS

Lead Authors: Allen Solomon, EPA
Douglas Fox, Colorado State U

Contributing Authors: Roger Barry, U of CO
John Harte, UC-Berkeley
Mathias Vuille, U Mass
Jerry Brown
Frederick Nelson

CRYOSPHERE

Contributing Authors: Roger Barry, U of CO
Richard Alley
John Everett, NOAA
David Robinson, Rutgers U
Raymond Assel, NOAA/Great Lakes Env. Res.
Jerry Brown, Int'l Permafrost Assoc.
Frederick Nelson, U of Del
Gunter Weller, U of AK-Fairbanks

HYDROLOGY AND WATER RESOURCES MANAGEMENT

Lead Authors: Charles Howe, U of CO (*)
David Zilberman, UC-Berkeley
Kenneth Strzepek, U of CO
Gene Stakhiv, USACOE
Robert Naiman, University of Washington

Contributing Authors: Anthony Fisher, UC-Berkeley
Tom Barnwell, EPA/NERL
Philip Chao, USACOE
Robert Wilkinson, UC-Santa Barbara
David Goodrich, USDA/ARS
Diane McKnight, U of CO
David Major, Columbia U
Rich Vogel, Tufts U
Neil Leary, EPA
James Houston
Peter Gleick
Robert Fleagle, University of Washington
Jeff Richey, University of Washington
James Shrouds, Federal Highway Administration

Review editor: Norm Rosenberg, PNL
Stanley Changnon, Illinois State Water Survey
Gregory Knight, Penn State U

FRESHWATER ECOSYSTEMS

Lead Authors: John Magnuson, U of Wisc (*)
Robert Brumbaugh, USACOE
Charles Coutant, ORNL
Diane McKnight, U of CO
Robert Naiman, University of Washington
Frank Rahel, U of Wyo
James Shortle, Penn State U
Peter Groffman, Institute for Ecosystem Studies

Contributing Authors: George Parsons, U of Del

Ann Fisher, Penn State U
 Donald Cahoon, USGS/Nat'l Wetlands Res. Ctr
 John Harte.

MARINE ECOSYSTEMS

Lead/Contributing Authors: John Everett, NOAA
 Mike Fogarty, Chesapeake Biological Laboratory (-)
 Chuck Hopkinson, MBL (-)
 Dave Karl, University of Hawaii (-)
 Peter Glynn, University of Miami (-)
 Paul Falkowski, Brookhaven National Labs (-)
 Peter Verity, Skidaway (-)
 Peter Webey (-)
 Tom Powell (-)
 Brian Rothchild (-)

COASTAL ZONES AND SMALL ISLANDS

Lead Authors: James Titus, EPA
 Gary Yohe, Wesleyan University ✓

Contributing Authors: Donald Cahoon, USGS/Nat'l Wetlands Res. Ctr.
 Wilson Orr, Prescott College
 Philip Chao, USACOE
 Gene Stakhiv, USACOE
 Virginia Burkett, USGS/Nat'l Wetlands Res. Ctr.

Review editor: James Houston, USACOE
 Michael Farrell, ORNL

HUMAN SETTLEMENTS

Lead Authors: Tom Wilbanks, Oak Ridge National Laboratory (*)
 Mike Scott, Battelle
 John Millhone
 Brian O'Neill

Contributing Authors: Wil Orr, Prescott College
 David Campbell, Mich State U
 Christopher Small, Columbia Unviersity
 Robert Wilkinson, UC Santa Barbara
 Arun Jhaveri, DOE
 James Parsnow, Carrier Corporation
 James Crawford, American Standard, Inc.

Review Editor: Amy Glasmeier, Penn State University

ENERGY, INDUSTRY AND TRANSPORTATION

Lead Authors: David Greene, ORNL
 Hashem Akbari, LBNL
 William Breed, DOE

Contributing Authors: James Parsnow, Carrier Corporation
 Adam Rose, Penn State U
 Mack McFarland
 James Crawford, American Standard, Inc.
 James Shrouds, Federal Highway Administration
 James J. Corbett, Carnegie-Mellon
 Rafael Friedmann, Lawrence Berkeley Laboratory
 Richard Ball, Department of Energy
 Thomas Wilson, EPRI (-)
 C.B. Husick, OWA, Inc.

Review editor: Stanley Changnon, Illinois State Water Survey
 Nazir Bhagat, Department of Commerce
 Denny Ellerman, MIT

FINANCIAL SERVICES

Lead Authors: Graciela Chichilnisky, Columbia U.
 Geoffrey Heal, Columbia U.

HUMAN HEALTH

Lead authors: Rita Colwell, University of Maryland
 Duane Gubler, CDC
 Warren Piver, NIEHS
 Margaret Kripke, M.D. Anderson Cancer Center
 Jonathan Patz, Johns Hopkins

Contributing Authors: Bruce Eldridge, UC Davis
 Robert Shope
 Larry Kalkstein, U of Delaware
 Alan Krupnick
 Sylvia LeBlancq
 Janice Longstreth
 Robert Shumway
 Robert Shope
 Mark Wilson, U Michigan (-)
 Sarah Foster, The Weinberg Group
 Paul C. Chrostowski, The Weinberg Group
 William Gore, Boehringer Ingelheim

Review Editor: Mary Gant, HHS

VEGETATION/LAND COVER

Lead Authors: Ron Neilson, USDA/FS (*)
 : Dennis Ojima, CSU/NREL
 Allen Solomon, EPA

Contributing authors: Thomas Loveland, USGS EROS

WILDLIFE/BIODIVERSITY

Lead authors: Terry Root, U of Mich
Robert Naiman, U of WA

Contributing authors: Jeff Price, American Bird Conservancy
Russ Graham, Illinois Museum
Camille Parmesan

INTEGRATED ASSESSMENT

Lead Authors: Joel Scheraga, EPA (A)
Kenneth Strzepek, U of CO (A)
Brent Yarnal, Penn State U (A)
Jae Edmonds, PNL (B)
Ron Neilson, USDA/FS (A)
Robert Naiman, U of WA (A)
Rich Richels, EPRI (B)
Stephen Schneider, Stanford (C)
John Weyant, Stanford (B)
Richard Ball, DOE (B)

Contributing Authors: Ted Parson, Harvard U.
Hugh Pitcher, PNL (B)
Richard Adams, OSU (A)
Steve McNulty, USDA/FS
Robert Mendelsohn, Yale U (A)
Joel Smith, Hagler Bailly Services (A)
Charles Howe, U of CO (A)
Tom Barnwell, EPA/NERL (A)
David Abler
Don Wuebbles, University of Illinois
Paul Chrostowski, The Weinberg Group
Mike Scott, PNL

Review editor: Dwight Atkinson
C. Gregory Knight, Penn State University
Michael Farrell, ORNL
Robert Fleagle, University of Washington
Henry Jacoby, MIT

A: Impacts/Adaptation
B: Emissions/Mitigation Costs
C: Atmosphere/Carbon Cycle/Climate

U.S. Government Nominations for the IPCC Third Assessment Report:

Working Group III

(*): Possible Convening Lead Author

I. SECTORS

ENERGY SUPPLY AND DEMAND

Lead: John Holdren, Harvard U.
Paul Komor, University of Colorado
Rich Richels, EPRI
Jayant Sathaye, LBNL
Jae Edmonds, PNL

Contributing: Richard Ball, DOE
Christopher Bordeaux, US Country Studies
Marilyn Brown, ORNL
Rafael Friedmann, LBL (Latin America)
James D. Kerstetter, Washington State University
Alan Miller, World Bank
David Streets, Argonne National Laboratory
Michael A. Toman, RFF

Review Editor: John Sheffield, ORNL
Howard Gruenspecht, DOE

INDUSTRY

Lead: William Moomaw, Tufts U.
Mark Levine, LBNL
~~Peter Wileoxen, UT~~

Contributing: Nathan Martin, LBNL
Lynn Price, LBNL
Ernst Worrell, LBNL
Mack McFarland, Dupont
Nell Elliot, ACEEE

Review Editor: Jay Shogren

TRANSPORTATION

Lead: David Greene, ORNL
~~Dan Sperling, UC Davis~~

Contributing: James Corbett, Carnegie Mellon University
 Leon Schipper, LBNL
 James Shrouds, Federal Highway Administration

Review Editor: ~~George Eads, Charles River Associates (H)~~
~~Martin Zimmerman, Ford (Chief Economist)~~

HUMAN SETTLEMENTS

Lead: Hashem Akbari, LBNL
 John Millhone, DOE
 Brian O'Neill, EDF
 Landis McKellar, IIASA (-)
 Tom Wilbanks, ORNL

Contributing: Marilyn Brown, ORNL
 James G. Crawford, American Standard, Inc.
 Nathan C. Martin, LBNL
 Lynn Price, LBNL

Review Editor: Arun Jhaveri, DOE

AGRICULTURE

Lead: Keith Paustian, Colorado State University
 John Reilly, USDA

Contributing: Neil Sampson, The Sampson Group
 Ronald L. Sass, Rice University

Review Editor: Norm Rosenberg, Pacific Northwest National Laboratory
 Vern Cole, Colorado State University

FORESTS/BIOTIC (NON-AG)

Lead: Sandra Brown, EPA (*)
 Jayant Sathaye, LBNL
 Greg Marland, ORNL
 Roger Sedjo, RFF

Contributing: Richard Birdsey, USDA
 Bill Hohenstein, EPA
 Robert Dixon, US Country Studies
 Mitchell Dubensky, American Forest & Paper Association
 Olga Krankina, Oregon State University
 Zhu Hua Ning, Southern University
 Neil Sampson, The Sampson Group
 Ronald L. Sass, Rice University
 Kenneth Skog, USDA

Review Editor: Steve Hamburg, Brown U.

II. MECHANISMS (not fully cross-matched with sectors above)

TECHNOLOGY TRANSFER, ADOPTION AND DIFFUSION

Lead: Paul Komor, University of Colorado
 Jayant Sathaye, LBNL
 Tom Wilbanks, ORNL
 Adam Jaffe, Brandeis University
~~Howard Graenspecht, DOE~~

Contributing: Nazir Bhagat, DOC
 Raymond Kopp, RFF
 Alan Miller, World Bank
 Larry Goulder, Stanford University

Review Editor: Bill Fulkerson, ORNL (-) 1

EVALUATION OF MITIGATION TECHNOLOGIES

Lead: John Millhone, DOE

Contributing: Marilyn Brown, ORNL
 Douglas Fox, Colorado State U. (for Asia)
 Dan Lashof, NRDC
 James R. Parsnow, Carrier Corporation
 Jerry Pell, US Country Studies
 David Streets, Argonne National Laboratory
 Alan C. Schroeder, DOE
 Gregg Marland, ORNL
 Paul Chrostowski, The Weinberg Group
 Joan Ogden, Princeton University
 William Gore, Boehringer Ingelheim

EVALUATION OF SEQUESTRATION TECHNOLOGIES

Lead: Stuart Gaffin, EDF
 Brent Sohngen, Ohio State University

Contributing: Vittorio Canuto, NASA Goddard
 Dan Lashof, NRDC
 Gregg Marland, ORNL

POLICY INSTRUMENTS

Lead: Robert Stavins, Harvard U. (*)
 Ray Prince, DOE
 David Montgomery, Charles River Associates

Contributing: David Abler, Penn State University
 Nazir Bhagat, DOC
 Christopher Bordeaux, US Country Studies
 Nick Demos

~~Henry Jacoby, MIT~~
 Alan Miller, World Bank
 Bill Moomaw, Tufts University
~~Frederick Rueter, CONSAD~~
 Jonathan Wiener, Duke University
 Robert Wilkinson, UCSB
 Mary Beth Zimmerman, DOE
 Jason Shogren, University of Wyoming
 Michael Toman, RFF
 David Levy, University of Massachusetts, Boston

Review Editor: ~~Richard Schmalensee, MIT~~

Peter Wilcoxon

EMISSION SCENARIOS

Lead: Don Wuebbles, U of Illinois
 Hugh Pitcher, Pacific Northwest National Laboratories
 Ray Prince, DOE

Contributing: John Holdren, Harvard University
~~Henry Jacoby, MIT~~
 Dan Lashof, NRDC
 Brian O'Neill, EDF

Review Editor: John Weyant, Stanford University

STABILIZATION PROFILE EVALUATION

Lead Rich Richels, EPRI
 Ray Prince, DOE ← *Tom Rutherford*

Contributing: ~~Richard Schmalensee, MIT~~
~~Henry Jacoby, MIT~~
 John Weyant, Stanford
 Greg Unruh, Tufts U.
 Raymond Kopp, RFF
 Ray Prince, DOE
 Jason Shogren, University of Wyoming

Review Editor: Adele Morris, CEA

IMPACTS OF MITIGATION ACTIONS

Lead: Jae Edmonds, PNL
 Rich Richels, EPRI
~~Peter Wilcoxon, U of Texas~~ *Tom Rutherford*

Contributing: Paul D. Guthrie, ICF/SAIO
~~Henry Jacoby, MIT~~
 Warren Piver, NIEHS
 John Weyant, Stanford
 Tom Wilbanks, ORNL
 Greg Unruh, Tufts U.

Adam Rose, Penn State University
William Gore, Boehringer Ingelheim

Review Editor: Dwight Atkinson, EPA
Nazir Bhagat, DOE
~~Mike Toman, RFF~~

DECISION-MAKING FRAMEWORKS (see also WGII Integrated Assessment)

Lead: John Weyant, Stanford
Rich Richels, EPRI
Joel Scheraga, EPA
Ray Squitier, Treasury
Jay Shogren, U of Wyoming
~~Mike Toman, RFF~~

Contributing: Christopher Bordeaux, US Country Studies
~~Henry Jacoby, MIT~~
Frederick Rueter, CONSAD Research Corporation
James Shortle, Penn State University
Joel Smith, Hagler-Bailly
Gene Stakhiv, USACOE
~~Peter Wilcoxon, University of Texas~~
~~Michael Toman, RFF~~
C.S. Husick, OWA, Inc.
Paul Chrostowski, The Weinberg Group

Review Editor: Henry Jacoby, MIT
~~Charles Kolstad, University of Santa Barbara~~

U.S. Government Nominations for the IPCC Third Assessment Report:

Working Group I¹

THE CLIMATE SYSTEM: AN OVERVIEW

Lead Author Robert Dickinson, Kevin Trenberth
 Review Editor I. Rasool, Robert Fleagle, Richard Somerville

RADIATIVE FORCING OF CLIMATE CHANGE

Lead Authors General: Dan Albritton, Susan Solomon
 Carbon Cycle: Chris Field, Pieter Tans, Jorge Sarmiento, Gregg Marland
 Other GHGs: Don Wuebbles, Ron Prinn, Mike Prather
 Aerosols: Robert Charlson, Joyce Penner, Steve Schwartz
 Solar: Judith Lean
 Radiative Forcing: Ramaswamy
 [Industrial nominee: Mack McFarland]

Review Editor Dave Hofmann, Ron Prinn

OBSERVED CLIMATE VARIABILITY AND CHANGE

Lead Authors: General: Tom Karl, Kevin Trenberth, David Easterling
 Polar regions: Roger Barry
 Paleoclimate: Jonathan Overpeck, Ray Bradley

Review Editor: Robert White, Richard Hallgren, Ken Kunkel

PHYSICAL CLIMATE PROCESSES AND FEEDBACKS

Lead Authors: General: Kevin Trenberth
 Atmosphere: Dennis Hartmann, Tony DelGenio, David Rind, Jeff Kiehl, Tom Ackerman
 Oceans: Russ Davis

¹The listing includes leading US researchers in this area, only very roughly in priority order

A special category of floaters/integrators is suggested to help bring coherence across the whole volume and to interface with other volumes.

The list of potential contributors from the US is very large and cannot be fully compiled. To fully involve the US scientific community, we recommend an open solicitation of contributions in addition to topical searches of the literature. We have, however, listed in the contributing author category some of the scientists who should be contacted to make sure they have an opportunity for their perspectives to be considered.

Review Editor Isaac Held, Ed Sarachik, Jerry Mahlman, David Randall, Robert Fleagle

BIOLOGICAL CLIMATE PROCESSES AND FEEDBACKS

Lead Authors: Land: Pam Matson, Chris Field, David Schimel, William Parton, Jonathan Foley, Kevin Griffin, Steve Wofsy
Ocean: Jorge Sarmiento, Phil Taylor

Review Editor Robert Dickinson, Jerry Melillo

CLIMATE MODELS: EVALUATION

Lead Authors General: Tony Broccoli, Mike Fiorino, Tom Delworth, Curt Covey
Paleoclimate: Karl Taylor

Review Editor Isaac Held, David Randall, James Kinter

GLOBAL CLIMATE MODELS: PROJECTIONS OF FUTURE CHANGE

Lead Authors: Gerald Meehl, Ron Stouffer, Tom Delworth, David Rind

Review Editor: Eric Barron, Tom Wigley

REGIONAL INFORMATION: MODELS AND PROJECTIONS

Lead Authors: Filippo Giorgi, Tom Peterson, David Easterling, Robert Crane, Tom Knutson, Linda Mearns, Haider Taha

Review Editor: Eric Barron

CHANGES IN SEA LEVEL

Lead Authors: General: Robert Bindshadler, Jim Titus, Vivien Gornitz, Stuart Gaffin
Antarctica: Charles Bentley
Mountain Glaciers: Mark Meier
Greenland: Jay Zwally, Richard Alley

Review Editor: Doug Martinson, Roger Barry

DETECTION OF CLIMATE CHANGE AND ATTRIBUTION OF CAUSES

Lead Authors: Tony Broccoli, Kevin Trenberth

Review Editor: Gerald North

ADVANCING OUR UNDERSTANDING

Lead Authors: Steve Schneider

Review Editor: Richard Somerville, John Perry, Robert Fleagle

***SPECIAL CATEGORY: FLOATERS AND INTEGRATORS**

Proposed Overall Scientific Integrators/Floaters

Tom Wigley, Steve Schneider, Michael Schlesinger

Proposed Overall WG Review Editors

Jerry Mahlman, Robert Fleagle, I. Rasool, Wallace Broecker

Those whose name arose as being able to contribute perspectives to chapters that should be considered. This list is very incomplete.

1 (Climate System)

Yochanan Kushnir
S. Ichiaque Rasool
Alan Robock
Richard Somerville
Haider Taha

2 (Radiative Forcing)

Steven Japar
Arvin Mosier
Alan Robock

3 (Observed Climate Variability)

Roger Barry
Tsing-Chang Chen
Thomas Delworth
David Easterling
Kevin Gallo
Steven Japar
Thomas Karl
Kenneth Kunkel
Yochanan Kushnir
Chris Landsea
Sumant Nigam
Thomas Peterson
David Portman
Robert Quayle
S. Ichiaque Rasool
Scott Robeson
David Robinson
Alan Robock
Mathias Frank Vuille

4 (Physical Climate Processes)

Roger Barry
Jay Famiglietti
Kevin Gallo
Yochanan Kushnir
Richard Lindzen
Sumant Nigam
Alan Robock
Herman Sievering
Richard Somerville
James Arthur Teeri
Xubin Zeng

5 (Biological Climate Processes)

Robert Dixon
Ronald Sass
Daniel Lashof
John Harte
Richard Norby

Herman Sievering

6 (Climate Models)

Eric Barron
Anthony Broccoli
Thomas Delworth
Keith Dixon
Patrick Michaels
Sumant Nigam
Alan Robock
Richard Somerville
Ronald Stouffer
Haider Taha
Warren Washington
Xubin Zeng

7 (Global Climate Models)

Thomas Delworth
Keith Dixon
Stuart Gaffin
Chris Landsea
Jerry Meehl
Alan Robock
Richard Somerville
Ronald Stouffer
Haider Taha

8 (Regional Information)

Robert Crane
David Easterling
Paul Guthrie
Thomas Randolph Knutson
Haider Taha

9 (Changes in Sea Level)

Richard Alley
Robert Bindshadler
Robert Etkins
Stuart Gaffin
James Houston
Michael Oppenheimer

10 (Detection of Climate Change)

Roger Barry
Anthony Broccoli
Tsing-Chang Chen
Thomas Delworth
Hugh Ellsaesser
Kevin Gallo
Michael Mann
Patrick Michaels
Michael Oppenheimer
Robert Quayle
Scott Robeson
Alan Robock
Ronald Stouffer

11 (Advacing Understanding)

Alan Robock
Richard Somerville

Indicated WG I, but no chapter

Jerry Pell
Carol Anne Clayson
Mark Chandler
Mary Anne Carroll
William Collins
Issac Held
Charles Husick
Jim Kinter
Sydney Levitus
Doug Martinson
Ronald Miller
Newell Reginal
Michael Prather
Michael Schlesinger
Eric Smith



lmalone @ usgcrp.gov (LaShaunda Malone)
03/20/98 11:04:18 AM

Record Type: Record

To: Adele C. Morris/CEA/EOP

cc:

Subject: Curriculum Vitaes for IPCC TAR

Adele,

Do you by chance have the Curriculum Vitaes of any of the following IPCC nominees? I think that we have some of these, especially, those marked with astericks, but I have not been able to locate them. I thought that it may be possible that some of the C.V.s were sent to you before I made a copy of them here.

- Dan Albritton
- Dwight Atkinson
- Sam Baldwin
- Tom Barnwell
- Vern Cole *
- Nick Demos
- ✓ George Eads —
- Neal Elliot
- Bill Fulkerson ✓
- ~~Larry Goulder~~
- Paul D. Guthrie
- Marty Hoffert
- ✓ Bill Hohenstein
- John Holdren, Ia *
- James Kerstetter
- Landis McKellar, Ia ✓
- John Millhone, Ia
- William Moomaw, Ia *
- James Shuttleworth
- Soroosh Sorooshian
- ✓ Ray Squitier, Ia
- Greg Unruh *

Thank you.

Best regards,
LaShaunda

LaShaunda Malone
National Assessment Coordination Office
U.S. Global Change Research Program
400 Virginia Ave., SW Suite 750
Washington, DC 20024

OFFICE OF THE U.S. GLOBAL CHANGE RESEARCH PROGRAM
Suite 750
400 Virginia Avenue, SW
Washington DC 20024

PHONE: (202) 488-8630 (202) 314-2233

FAX: (202) 488-8681 (202) 488-8678

Internet: mmaccrac@usgcrp.gov

TO: Jeff Frankel / Adele Morris
FROM: Michael MacCracken
DATE: 1/21/98
SUBJECT: IPCC Author Nominating

.....
This fax consists of 5 page(s), including this page
.....

MESSAGE:

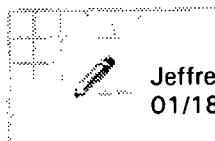
- Sent based on request from Rosina Bierbaum
- As explained in the letter, the USG needs to make nominations for IPCC TAR authors by Feb 27. We (the USGCRP, acting on behalf of DOS, which is the official USG IPCC member) are soliciting suggestions for nominations — and will hold interagency meetings in February to decide on nominees.
- The solicitation process is open to all, so feel free to pass on letter/forms inside and outside govt.* DOS will convene interagency mtg to decide on US nominations.

Please call if you'd like more info.

*especially to economic community.

J. MacCracken

*MacCracken
Stevens
Richels
Edmonds*



Jeffrey A. Frankel
01/18/98 02:34:40 PM

Record Type: Record

To: Joseph E. Aldy/CEA/EOP, Randall W. Lutter/CEA/EOP, Adele C. Morris/CEA/EOP

cc:

Subject: New Round of the IPCC

See inquiry from Stavins below. I got a very similar inquiry (orally) from Nordhaus a few weeks ago. Do any of you know who in the Administration is doing this? If not: Adele, could you investigate. Start by calling Sandalow; then maybe State.

JF

----- Forwarded by Jeffrey A. Frankel/CEA/EOP on 01/18/98 02:32 PM -----



Robert Stavins/FS/KSG @ ksg.harvard.edu
01/16/98 12:43:00 PM

Special Assessments

Record Type: Record

To: jeffrey a. frankel

cc:

Subject: New Round of the IPCC

Jeff,

Are you or others at CEA involved in putting together nominations for lead authors for Working Group III (Options to Mitigate Climate Change) of the Third Assessment Report of the Intergovernment Panel on Climate Change (IPCC)? As you may know, I served as a Lead Author for the previous round of the IPCC (at Joe Stiglitz's request, as I recall). That time, I was somewhat resistant to participating, but eventually agreed. This time, I'm feeling more positive about it, as I will explain.

I just received a call for nominations, and in reviewing the list of categories of the new Working Group III (Mitigation Options), I was struck by the coincidence of that list with the focus of much of my own research over the past ten years, in particular: economic analysis of energy-efficiency technologies; costs and efficacy of (biological) carbon sequestration; effective use, diffusion, and transfer of these technologies; and policies and policy instruments to further technological

change. There's a great deal of sloppy thinking on these topics and how they relate to global climate policy (as reflected in the DOE 5-Labs study), and I'm concerned about the directions that the IPCC could therefore take.

So, if you and your colleagues are involved in putting together the slate of U.S. Lead Authors, I hope you'll consider including me in your list.

If you want to discuss any of this, please give me a call at your convenience.

Rob

Robert N. Stavins, Professor of Public Policy, and Faculty Chair,
Environment
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Phone: 617-495-1820 Fax: 617-495-1635 E-Mail:
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Robert_Stavins/FS/KSG @ ksg.harvard.edu

01/21/98 10:44:00 AM

Record Type: Record

To: Adele C. Morris, jeffrey a. frankel

cc:

Subject: IPCC process and CEA

Adele,

Thanks for your note regarding the process for setting up the IPCC's third assessment team. In response,

1. I'm glad to hear that you're "now trying to insert CEA into those decisions," but the problem you face -- of course -- is that CEA is not designated as a participating agency. That was a significant mistake, but I assume it's too late to correct. In the previous round, Joe Stiglitz was central to formulating the U.S. team, but I assume (but don't know) that CEA was officially a participant agency. Also, NSF (Dan Newlon, in particular) was highly engaged in putting together the U.S. economics team for IPCC's second assessment (Wkg. Group III), but until I spoke with him yesterday, Dan was not engaged this time.
2. A committee is meeting on February 9th to put together the U.S. set of nominations, so there's not much time (but you're used to that).
3. In any event, in case you don't have the list, the set of participating agencies in the U.S. Global Change Research Program, under which the establishment of the U.S. IPCC teams falls, is: Departments of Agriculture, Commerce, Defense, Energy, Health & Human Services, Interior, and State; EPA; NASA; NSF; Smithsonian; OMB; and OSTP. OMB may be the best route through which you can influence the process, but -- needless to say -- you know your points of contact better than do I. Note that in addition to CEA being excluded, so is the Department of Treasury! I've chatted with Jonathan Gruber about this. You may want to talk with him, if you haven't already. I assume the two of you know each other well.
4. The U.S. Lead Authors are divided into the three Working Groups. Working Group I is Climate System (exclusively natural science); Working Group II is Impacts and Adaptation (which seems to focus on natural science, but since "integrated assessment" is one of the topic areas for Working Group II, they must also want economists); and Working Group III is Mitigation Options (which I take to be largely economics, given the set of sub-topics listed). If you want to see the list of sub-topics listed for each Working Group, you can get these from Dan Newlon at NSF, or I can fax it to you.

5. I believe that EPA's input into the process will be reasonable, because Al McGartland, the senior economist in OPPE, is involved (but you should talk with him, since perhaps his perception of this is different than mine). But, if you want to get up to speed quickly, a call to Al will be worthwhile. He seems to be more plugged into this process than anyone with whom I've spoken in the past few days.

6. I'd be concerned about DOE, since I don't know who there is handling it, and a big chunk of Working Group III is "technology," and there are -- as you know -- some ideologues and frankly relatively flaky people at DOE that work on energy-efficiency technology. Indeed Mark Levine of the infamous DOE Five-Lab Study was listed as having received the same notification that I did. There's a constant battle on the technology innovation and diffusion issues between the economists and the technologists, and I don't need to tell you who's right. The greatest danger I see for IPCC Working Group III is the presence of "technologists" on the teams. A good person at DOE is John Houghton, particularly on integrated assessment models. He sponsors much of the best research being done, and so he knows who the best people are (that would be for Working Group II). And, of course, Howard Gruenspecht at DOE is great, but you must work with him regularly.

7. By the way, I was also concerned to see the name of Paul Epstein, the only Harvard person besides me on the list (and one of the very few names I even recognized!). Epstein is an adjunct clinical prof at Harvard Medical School; knows nothing about climate change issues; is a physician, not a medical researcher; but is a passionate activist on global climate policy -- that's obviously not the set of characteristics that should merit inclusion in this important scientific body!

8. I appreciate your invitation for me to contact you with my "input on climate change matters," and I may do so, but I would prefer that you feel free to call on me with any questions you may have on climate change or other environmental economic matters, on a regular basis. Your predecessors for the past ten years have done that, and you're certainly welcome to use me as a resource when and if you think I can be helpful.

9. As for your question about other persons that should (or should not be) considered for these positions, I offer a brief list below of some of the best U.S. economists working on climate issues, but in some cases, their expertise is very narrow, and so it will depend upon the scope of the Working Groups, and WG III seems to be narrowly focused at present. As for who should not be considered, I commented above, and I'll be pleased to offer you my comments on any names you hear about. So, here's my list, which is partly drawn from a list I've put together with Bill Nordhaus for an NBER workshop on climate policy we're co-organizing for this coming summer:

William Nordhaus, Yale (benefits and costs of climate policies, integrated assessment models) ?

Robert Stavins, Harvard (climate policy instruments, innovation and diffusion of energy efficiency technologies, costs of biological carbon sequestration) ✓

Jae Edmonds, Batelle (integrated assessment models - IAP) ✓
Lawrence Goulder, Stanford (carbon and energy taxes)
Dale Jorgenson, Harvard (carbon and energy taxes)
Paul Joskow, MIT (tradeable permits, IO issues) *won't do it*
Charles Kolstad, Santa Barbara (benefits and costs)
Alan Manne, Stanford (IAP) - *won't do it*
Richard Richels, EPRI (IAP) -- important to include him; he was very productive in last round of IPCC

Will nominate

L Kenneth Arrow, Stanford (intertemporal valuation issues)
David Montgomery, Charles River Associates (general)
Thomas Schelling, Maryland (intertemporal and spatial distribution issues) ← *want to do it* ← *(Review Editor?)*
Richard Schmalensee, MIT (policy instruments)

H John Weyant, Stanford (benefits and costs, IAP) ←

H+ → Adam Jaffe, Brandeis (technological change, R&D)
? → Frank Lichtenberg, Columbia (technological change, R&D)

too busy → Michael Spence, Stanford (technological change, R&D)
Jonathan Wiener, Duke (legal scholar, policy instruments)

w/o #1? Won't participate

H Tom Wigley, NCAR (excellent climate scientist) ←
H Peter Wilcoxon, Texas (carbon taxes, other policy instruments) — *substitute*
Gary Yohe, Wesleyan (benefits and costs)

H — Dallas Burtraw, RFF (policy instruments) — *btw Perry & Toman*
William Pizer, RFF (costs of abatement) - *contributor*
Michael Toman, RFF (all areas of climate change; knows energy industries well)

→ Robert Mendelsohn, Yale (economic impacts of climate change) —

That's it. I hope you find this helpful.

Rob

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and Natural Resources Program, John F. Kennedy School of Government,
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Cline / Cooper

Adele_C._Morris@oa.eop.gov on 01/20/98 05:58:00 PM

To: robert_stavins@harvard.edu
cc: (bcc: Robert Stavins/FS/KSG)
Subject: IPCC process

Message Creation Date was at 20-JAN-1998 17:58:00

Hi Rob,

Pursuant to our attempts to connect by phone today, I'd like to get more input

on what you think we should be doing in the IPCC process. With Jeff's help,

I'm now trying to insert CEA in those decisions. I think the lead authors will

be very important in rectifying the pervasive sloppy thinking on these matters,

and especially important given the leadership of the process.

To your knowledge, are the US Lead Authorships broken down into specific responsibilities over which you have particular preferences?

Are there other persons you'd like to draw our attention to who have been or

should be (or should not be) considered for these positions?

I know the current concern is the WGIII Third Assessment, but are there other

special assessments coming up that we should weigh in on?

Aside from your interests in the IPCC, please feel free to contact me with your

input on climate change matters. Our office is an active participant in the

White House climate policy process, and we welcome your thoughts.

Best regards,

Adele Morris

(202) 395-5012

fax (202) 395-6870

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Council of Economic Advisers

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Human Settlements

Forest Landis McKellar

Milton Scholar

IIASA

A-2361 Laxenberg Austria

McKellar@iiasa.ac.at

JF 8/14/97

Economist candidates to invite to Oct. White House conference on GCC

more senior experts on GCC
2300

some other eminent economists of

lead signers of letter

Bill Nordhaus
Dale Jorgenson

Ken Arrow *
Paul Krugman
Robert Solow *

other signers of letter

Richard Schmalensee

William Baumol, NYU
Max Corden, SAIS
Gerard Debreu, UCB *
Frank Fisher, MIT
Claudia Goldin, Harvard
Ned Gramlich, U.Mich/ FRB nom.
Lawrence Klein, U.Penn *
Anne Krueger, Stanford
Larry Katz, Harvard
Robert Litan, Brookings
Van Ooms, CED
Jeff Sachs
James Tobin *

other eminent who didn't sign
Bill Cline, IIF
Richard Cooper, Harvard

John Harsanyi *
Wassily Leontief *
Franco Modigliani *

Stephen DeCanio
Robert Repetto

experts in GCC
not quite as senior/big name

signed letter
Stavins

couldn't find name on list
Goulder
Rutherford
McKibbin
Wilcoxon
Richels
Toman

former Admin
Alan Blinder
Laura Tyson
Alicia Munnell
Ev Ehrlich
Joe Stiglitz

James McCarthy

@ Harvard

WG - Vulner

Impacts & Adaptation

WG 3

Bert Metz,

from Netherlands
(green)

Lead authors:

→ Rosna Bierbaum

Special Assessments

| <u>Name / Agency</u> | <u>tel / fax / email</u> |
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ECONOMISTS WHO WORK ON CLIMATE CHANGE

Review editor?

on list

Riscad H-

Worked w/ Nordhaus

H-

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Ian Perry ResourcesforFuture perry@rff.org 202-328-5151

Peter Bohm - not American Univ of Stockholm

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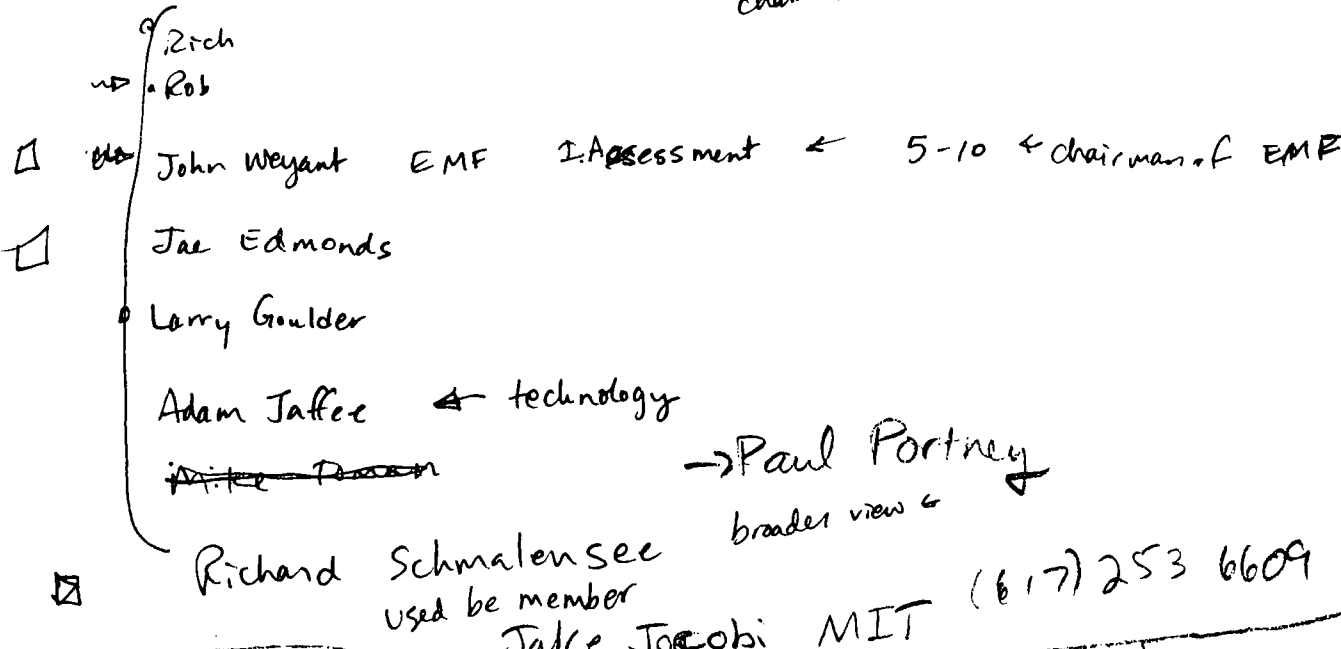
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Alan Manne

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Jerry Mellilo OSTP

@ Woods Hole VMAP ... offered chair of WG2



David Montgomery 662-3840 Wash Charles River



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FAX 614-292-4749

February 26, 1998

Adele C. Morris
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Council of Economic Advisors
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Old Executive Office Building
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Phone: 202-395-5012
Fax: 202-395-6870

Dear Adele,

I appreciate your request to submit my name for the upcoming IPCC Assessment. I would certainly like to explore the possibility of helping with that assessment. Attached is my CV. I will send this also as hardcopy.

It would be good to talk at some point about the potential time commitment of this process. With that in mind, I am excited about the prospect for serving in this process.

Sincerely,

Brent Sohngen
Phone: 614-688-4640
Fax: 614-292-0078

Brent L. Sohngen

Curriculum Vita

Assistant Professor
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phone: (614) 688-4640
 fax: (614) 292-0078
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February 24, 1998

Education

- Yale University, School of Forestry and Environmental Studies.*
 • Doctorate Degree in Natural Resource and Environmental Economics December, 1995
- Cornell University, College of Agriculture and Life Sciences*
 • Bachelor of Science Degree in Applied Economics and Business Management May, 1991

Employment

- The Ohio State University* 1996 - Present
 • Assistant Professor, Department of Agricultural Economics
 • Interests: Valuing Environmental Change, Modeling Land-Cover Change, Economics of Non Point Source Pollution
- Resources For the Future* 1995 to 1996
 • Gilbert White Postdoctoral Fellow
 • Estimate the economic impact of climate change on global timber markets
- US Forest Service, Pacific Northwest Forest Experiment Station* Summer, 1992, 1993
 • Research Associate
 • Researched emerging hardwood markets, impact of forest fire damage, and price behavior in Douglas Fir timber markets.

Peer Reviewed Articles

- Sohngen, B. and R. Mendelsohn, (1998), "Valuing the Market Impact of Large Scale Ecological Change: The Effect of Climate Change on US Timber" In Press: *The American Economic Review*.
- Sohngen, R. and R. Sedjo, (1998), "A Comparison of Timber Market Models: Static Simulation and Optimal Control Approaches." In Press: *Forest Science*.
- Sohngen, B., R. Mendelsohn, and R. Neilson, (1998), "Predicting CO₂ Emissions from Forests During Climate Change: A Comparison of Human and Natural Response Models." In Press: *Ambio*.
- Sohngen, B. and R. Haynes, (1997), "The Potential for Increasing Carbon Storage in United States Unreserved Timberlands by Reducing Forest Fire Frequency: An Economic and Ecological Analysis," *Climatic Change*, 35(2): 179-197.
- Sohngen, B. and R. Mendelsohn, (1997), "A Dynamic Model of Carbon Storage in the United States During Climatic Change." Pages s309-s322 in *Economics of Carbon Sequestration in Forestry*, Edited by R. Sedjo, N.

Sampson, and J. Wisniewski. Boca Raton: Lewis Press. Also in *Critical Reviews in Environmental Science and Technology*, Volume 27/Special Edition.

Richards, K., R. Alig, J. Kinsman, M. Palo, and B. Sohngen, (1997), "Consideration of Country and Forestry/Land-Use Characteristics in Choosing Forestry Instruments to Achieve Climate Mitigation Goals." Pages s47-s64 in *Economics of Carbon Sequestration in Forestry*, Edited by R. Sedjo, N. Sampson, and J. Wisniewski. Boca Raton: Lewis Press. Also in *Critical Reviews in Environmental Science and Technology*, Volume 27/Special Edition.

Articles Submitted or in Review

Pendelton, L., B. Sohngen, R. Mendelsohn, and T. Holmes, (1996), "A Hedonic Travel Cost Analysis of Forest Attributes in the Southern Appalachians." In Revision: *Forest Science*.

Sohngen, B., R. Mendelsohn, R. Sedjo, (1997), "The Economics of Global Timber Markets" In Revision: *American Journal of Agricultural Economics*.

Book Chapters, Other Publications, and Proceedings

Sohngen, B. and R. Mendelsohn, (1998), "The US Timber Market Impacts of Climate Change," Chapter 5 in *The Market Impacts of Climate Change on the US Economy*, edited by Robert Mendelsohn and James Neumann. Cambridge University Press: Cambridge, UK.

Neilson, R. (lead author), R. Alig, M. Apps, D. Brooks, L. Joyce, J. Malcolm, D. L. Martell, R. J. Norby, W.M. Post, B. Sohngen, B. Stocks (1997), "Forested Ecosystems." Chapter 8.4 in *The Regional Impacts of Climate Change: An Assessment of Vulnerability*, Eds. R.T. Watson, M.C. Zinyowera, and R.H. Moss, Cambridge: Cambridge University Press. 518 pages

Sohngen, B., R. Sedjo, R. Mendelsohn, and K. Lyon, (1997), "The Role of Human Adaptation in Ameliorating the Impact of Climate Change on Global Timber Markets." Chapter 8 in *Climate-change Mitigation and European Land-use Policies*, Eds. W.N. Adger, D. Pettenella, M. Whitby. Wallingford, U.K.: CAB International.

Sohngen, B., R. Mendelsohn, R. Sedjo, and K. Lyon, (1997), "An Analysis of Global Timber Markets." Discussion Paper 97-37, Washington, D.C.: Resources For the Future.

Sohngen, B. (1997), "Historical Perspective of Modeling Timber Markets." Chapter 2 in *Models Needed to Assist in the Development of a National Fiber Supply Strategy for the 21st Century: Report of a Workshop*. Eds. R.A. Sedjo and A. Geotzl. Discussion Paper 97-22. Washington: Resources For the Future.

Sohngen, B., R. Sedjo, R. Mendelsohn, and K. Lyon, (1996), "Analyzing the Economic Impact of Climate Change on Global Timber Markets." Discussion Paper 96-08, Washington, D.C.: Resources For the Future.

Sohngen, B. and R. Sedjo, (1996), "A Comparison of Timber Models for Use in Public Policy Analysis." Discussion Paper 96-12, Washington, D.C.: Resources For the Future.

Sohngen, B. and R. Haynes, (1994), "The 'Great' Price Spike of '93: An Analysis of Lumber and Stumpage Prices in the Pacific Northwest." Research Paper PNW-RP-476. Portland: US Department of Agriculture, Forest Service, Pacific Northwest Forest and Range Experiment Station.

Sohngen, B. and R. Haynes (1994), "Hardwood Price Reporting." Research Paper PNW-RP-470. Portland: US Department of Agriculture, Forest Service, Pacific Northwest Forest and Range Experiment Station.

Sohngen, B., T. Holmes, and R. Mendelsohn, (1993), "Hedonic Travel Cost Analysis of Forest Attribute Values in the Southern United States." Proceedings: *Southern Forest Economic's Workshop*, Durham, NC, April 21-23, 1993.

Conference Participation and Presentations

- "Climate Induced Land Cover and Production Impacts on Timber Markets and Carbon Storage." Presentation at the Annual Meetings of the American Association for the Advancement of Science, Philadelphia, PA, February 17, 1998.
- "Timber Supply and Forest Carbon in a World of Climate Change: Some Modeling Approaches and Results." Presentation at the Resources For the Future Weekly Policy Seminar, Washington, D.C., February 18, 1998.
- "Measuring Climate Change Impacts: The Case of Global Timber Markets." Paper presented at the Annual Meetings of the American Association of Agricultural Economists, July, 1997.
- "The Impact of Climate Change on Global Timber Markets." Paper presented at the Seventh Symposium on Systems Analysis in Forest Resources, held at Shanty Creek Resort, Traverse City, MI, May 28-30, 1997.
- "An Historical Perspective of Timber Market Modeling." Paper presented at the 'Workshop to Examine Models Needed to Assist in the Development of a National Fiber Supply Strategy for the 21st Century,' held at Resources For the Future, Washington, D.C., October 3-4, 1996.
- "Valuing the Market Impact of Large Scale Ecological Change." Paper presented at:
- Resources For the Future Seminar Series, Washington, D.C., February, 1996.
 - The Ohio State University, Dept. of Agricultural Economics, February, 1996.
 - Cornell University, Dept. of Agricultural Economics, September, 1995.
 - Western Forest Economists Meeting, Wemme, OR, May, 1995.
- "A Dynamic Model of Carbon Storage in the United States During Climatic Change ." Paper presented at a workshop: *Terrestrial Carbon Sequestration: An Economic Synthesis*, Stockholm, Sweden, May, 1995.
- "The Economic Impact of Climate Change on the U.S. Timber Industry." Paper presented at the Western Economic Association Meeting, Vancouver, British Columbia, June, 1994.
- "An Hedonic Travel Cost Analysis of Forest Attribute Values in the Southern United States." Paper presented at the Southern Forest Economists Annual Meeting, Durham, NC, April, 1993.

Extension Publications and Factsheets

- Rausch, J. and B. Sohngen, (1997), "Incentive Programs for Improving Environmental Quality." OSU Extension Fact Sheet AE-1-97.
- Rausch, J., B. Sohngen, and E. Norland, (1997), "The Environmental Quality Incentive Program: EQIP." OSU Extension Fact Sheet AE-2-97.
- Sohngen, B. and M. Taylor, (1997), "Markets for Water Pollution Abatement." Mimeo, Extension Program in Environmental and Natural Resource Economics, The Ohio State University.
- Sharp, K. and Sohngen, B. 1997. "Fewer Forest Fires Could Benefit Climate." Printed in *Environment*, A newsletter published by OSU Extension.
- Brent Sohngen, (1996), "Environmental Economics in Extension." Mimeo, Extension Program in Environmental and Natural Resource Economics, The Ohio State University.
- John Rausch and Brent Sohngen, (1996), "Downstream Economic Impacts of Soil Erosion: The Case of the Maumee Basin." Mimeo, Extension Program in Environmental and Natural Resource Economics, The Ohio State University.

IPCC Meeting Attendees (2/11/98)
U.S. Global Change Research Program Office

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| Neil Leary/EPA | (202)260-8111 | (202)401-0454 | leary.neil@epamail.epa.gov |
| Mike MacCracken/ USGCRP | (202)314-2233 | (202)488-8681 | maccrac@usgcrp.gov |
| Adele Morris | (202)395-5012 | (202)395-6870 | morris_a@a1.eop.gov |
| Ray Prince/DOE | (202)586-4265 | (202)586-2062 | raymond.prince@ha.doe.gov |
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facsimile
TRANSMITTAL

to: Adele Morris
fax #: (202) 395-6870
re: IPCC Nomination for James Edmonds
date: February 18, 1998
pages: 3, including this cover sheet.

From the desk of...

Suzette S. Hampton
Senior Secretary
Battelle, PNNL
901 D Street, SW, Suite 900
Washington, DC 20024

(202) 646-5263
Fax: (202) 646-7845

| <u>Agency</u> | <u>Name</u> | <u>phone</u> | <u>fax</u> | <u>email</u> |
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| Dept of Energy | Howard Gruenspecht | 586-5337 secretary 526-4767 | | |
| U. of Texas | Peter Wilcoxon | (512) 475-2531 | 471-3510 | wilcoxon@eco.texas.edu |
| USDA/ERS | John Reilly | OK | | |
| M.I.T Energy Lab(?) | Denny Ellerman ✓ | 617-253-3551 | 617-253-9345 | ellerman@mit.edu |
| | Henry Jacoby | (617) 253-6609 | 617-253-6855 | hjacoby@mit.edu |
| Wesleyan Wesleyan | Gary Yohe | (800)-685-2722 (860) 685-2722 (860) | | gyohe@wesleyan.edu |
| UC Davis | Dan Sperling ✓ | 916-752-6182 | | |
| Charles River Associates, DC | George Eads ✓ | CRA-202-662-3800 | 202-662-3910 | |
| Chief Economist & Ford | Martin Zimmerman ✓ | 313-337-3299 | 313-390-1207 | none |
| IIASA | Landis McKellar | OK | | McKellar@iiasa.at |
| Oak Ridge Nat'l Lab | Bill Fulkerson ✓ | @dir.enr div: bid 4500 N oakridge TN 37831 | | (423) 574-9920 |
| Ohio State | Brent Sohngen | OK | | |
| | Tom Rutherford | | | |

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United_States/

Global Climate Research
Facsimile Transmission

Sender: Richard Richels

Pages (including cover): 4

Phone: (650) 855-2602

Subject: IPCC Nominations

Date: January 24, 1998

Destination Information

| | |
|----------|--------------|
| Name | Adele Morris |
| Company | CEA |
| Division | |
| Phone | |
| Fax | 202 395 6870 |

Dear Adele,

Attached is the material you requested. I received a call from Rob Stavins and he mentioned the individuals he suggested to you. I strongly endorse his list. I also very much appreciate the efforts of CEA to help ensure that the TAR provides a balanced assessment with regard to the economics of climate change. If I can be of additional help, please do not hesitate to contact me.

Best regards,



Richard Richels

WG 2 - Int. Ass.

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F A X

DATE: 1/30/98

TO: Adele Morris

202 395 6870
(FAX) (PHONE)

FROM: Adam Jaffe

MESSAGE:

TRANSMITTING 3 PAGE(S), INCLUDING THIS PAGE



"Edmonds, James A (Jae)" <jae @ pnl.gov>
03/24/98 07:51:21 AM

Record Type: Record

To: Adele C. Morris/CEA/EOP

cc:

Subject: RE: need email addresses and phone numbers

Dear Adele:

No problem. See below:

Dr. William Fulkerson
Senior Fellow
Joint Institute for Energy & Environment
600 Henley Street, Suite 314
Knoxville, TN 37996-4138
USA
423-974-3939 (tel)
423-988-8084 (tel-home office)
423-974-4609 (fax)
wfulk@utk.edu (email)
HOME ADDRESS:
2781 Wheat Road
Lenoir City, TN 37771

Forrest Landis MacKellar
Mellon Scholar
IIASA
A-2361 Laxenburg
AUSTRIA
+ 43 223-680-7543 (tel)
+ 43-223-671-313 (fax)
McKellar@iiasa.ac.at (email)

jae

-----Original Message-----

From: Adele_C._Morris@cea.eop.gov [SMTP:Adele_C._Morris@cea.eop.gov]
Sent: Monday, March 23, 1998 7:30 PM
To: Edmonds, James A (Jae); weyant@leland.Stanford.EDU;
RRICHELS@epri.com; CN = Robert_Stavins/OU = FS/O = KSG@ksg.harvard.edu
Subject: need email addresses and phone numbers

No news yet on the IPCC's TAR. I hear they're still working on the list,

even after the Geneva meeting. I'll let you know when I hear more.

I'm trying to get ahold of Landis McKellar from IIASA and Bill Fulkerson
at

ORNL. Any coordinates you have for these guys would be appreciated.
(One of you gave me Landis' email address, but it didn't work. I'll try
again if you confirm it for me.)

Best,
Adele

EXECUTIVE OFFICE OF THE PRESIDENT

**COUNCIL OF ECONOMIC ADVISERS
17TH & PENNSYLVANIA AVE., NW
WASHINGTON, DC 20502**



THE OLD EXECUTIVE OFFICE BUILDING

TO: *Melissa Taylor*

FAX NUMBER: *488-8678*

OFFICE:

TEL NUMBER:

FROM: **ADELE MORRIS**

FAX NUMBER: **(202) 395-6870**

ROOM: **319**

TEL NUMBER: **(202) 395-5012**

NO. OF PAGES (inc cover) _____ **DATE:** *2/27/98*

SUBJECT: *culs*

MESSAGE: *PART ~~1~~ ~~2~~ 3*



OFFICE OF THE US GLOBAL CHANGE RESEARCH PROGRAM
400 Virginia Avenue, SW
Suite 750, Washington, DC 20024
Phone: 202-488-8650 Fax: 202-488-8681

TO: Adele Morris
FROM: LaShaunda Malone (tel: (202)314-2238; e-mail: lmalone@usgcrp.gov)
Subject: NEW IPCC Nominations
DATE: 2/20/98

This fax 64 page(s)

MESSAGE:

Dr. Morris,

I have attached copies of new IPCC nominations and new supporting materials for past nominations. Sorry about the length of this fax, but I thought that this would be the best way to get the nominations to you. The first fax is 21 pages excluding the cover page. The second fax is 21 pages, and the third fax is 22 pages.

Best regards,
LaShaunda

SUGGESTIONS OF EXPERTS TO PARTICIPATE IN THE THIRD ASSESSMENT REPORT OF THE IPCC

Please submit one form for each nominee along with curriculum vitae and/or one page biographical sketch. Note that this form consists of two pages.

Full Name: MITCHELL M. DUBENSKY
 Title: DIRECTOR, FOREST RESOURCES ENVIRONMENT
 Affiliation: AMERICAN FOREST & PAPER ASSOCIATION
 Full Address: 111 19th ST NW
 WASHINGTON DC 20036

Tel: 202 463 2434
 Fax: 202 463 4703
 Email: Mitchell.Dubensky@AF&PA.org
 Expertise: FORESTRY & CARBON SINKS
 Nominated by: JO COOPER, VICE PRESIDENT, REGULATORY AFFAIRS (AF&PA)

What role would you recommend that this expert play in the preparation of the Third Assessment Report? (Please try to select one only, recognizing that this may differ by chapter).

- Lead Author (coordination and integration of scientific/technical information)
- Contributing Author (support lead author in preparation of specific text/data)
- Review Editor (ensure scientific/technical validity and balance)
- Resource Person (address technical questions, participate in expert review, attend expert meetings, etc.)

Has this person been contacted and given concurrence to be nominated?

- Yes
- No

Please include a curriculum vitae and/or one page biographical sketch and submit by February 9, 1998 to:

Melissa J. Taylor, USGCRP Office
 400 Virginia Avenue, SW, Suite 750
 Washington, DC 20024
 tel: 202 314 2239/fax: 202 488 8681
 email: mtaylor@usgcrp.gov

For each nominee, please also submit Page 2 which covers subject area.

Name of Expert: Mitchell Dubensky - Page 2 -

Please indicate the most appropriate subject area(s); if you are designating more than one, please rank with 1's indicating highest relevance/priority and 2's indicating secondary relevance/priority.

| Working Group I: Climate System | |
|--|--|
| | The Climate System: An Overview |
| | Radiative Forcing of Climate Change |
| | Observed Climate Variability and Change |
| | Physical Climate Processes and Feedbacks |
| | Biological Climate Processes and Feedbacks |
| | Climate Models: Evaluation |
| | Global Climate Models: Projections of Future Change |
| | Regional Information: Models and Projections |
| | Changes in Sea Level |
| | Detection of Climate Change and Attribution of Causes |
| | Advancing our Understanding |
| Working Group II: Impacts and Adaptation | |
| 1 | Forests and Forestry |
| | Agriculture and Food Security |
| | Rangelands |
| | Deserts |
| | Soils and Land Degradation |
| | Mountain Regions |
| | Cryosphere |
| | Hydrology and Water Resources Management |
| | Freshwater, Wetland, Coastal and Marine Ecosystems (including Fisheries) |
| | Infrastructure in Coastal Zones and on Small Islands |
| | Human Settlement Patterns and Conditions |
| | Energy, Industry, and Transportation |
| | Financial Services (including Insurance) |
| | Human Health |
| | Integrated Assessment |
| Working Group III: Mitigation Options | |
| 1 | Potential of technologies and practices to reduce greenhouse gases from energy supply and demand, industrial and transportation sources, waste disposal, agriculture and forestry, etc. |
| 1 | Potential of technologies and practices to enhance the removal of greenhouse gases, including both biological sinks and technologies to capture and store carbon and technologies. |
| 2 | Barriers to effective use, diffusion, and transfer of these technologies and practices. |
| 1 | Policies and policy instruments to harness the potential of technologies and practices and to overcome barriers, including incentives for the penetration of new technologies, national and regional information centres, public and private sector R&D programs, fiscal instruments (taxes, subsidy elimination, internalization of externalities, negotiated agreements, joint implementation, emissions trading and regulation) |
| 2 | Global assessment of the mitigation potential of these technologies, practices and policies. |
| 2 | Regional assessment of the mitigation potential of these technologies, practices and policies for all sectors and for sources and sinks, including their local and regional dimensions. |
| 1 | Assessment of emission scenarios to achieve stabilization of atmospheric concentrations of greenhouse gases and of the relevant policy mix underlying these scenarios. |
| 2 | Costs and benefits of achieving different emission profiles and different stabilization levels and costs and benefits of achieving different emission limitation and reduction profiles at a regional level, including cross-sectoral assessment of the use of discount rates. |
| 1 | Assessment of the social, economic and environmental impacts of mitigation actions on all countries, including impact on trade relations. |
| 2 | Assessment of decision-making frameworks involving both adaptation and mitigation approaches, equity and sustainable development considerations, integrated environmental assessment tools and other relevant aspects, including synergy with other regimes. |

003/005

MITCHELL M. DUBENSKY

4411 Chesapeake Street N.W.
Washington D.C. 20016

(202) 363-9607 (home)
(202) 463-2434 (work)

EXPERIENCE:

AMERICAN FOREST & PAPER ASSOCIATION, Washington D.C. 1990 to Present
Director, Forest Resources Environment

- c Work with major, integrated forest, wood and paper products companies.
- c Responsible for directing and formulating industry strategies and policies, both independently and through team management, on a variety of federal, state and international environmental legislation, regulations and policies involving global climate change, forest management, timber supply/demand resource planning, forest inventory and analysis, water quality, wetlands, coastal management, toxics, pesticides and permitting issues.
- c Write testimony and advocate industry policies to Administration, federal agencies and Capitol Hill representatives and staff.
- c Directed industry team in negotiations with environmental community and EPA resulting in nomination for Vice President Gore's "Golden Hammer" Award.
- c Deliver speeches and represent industry at international, national, regional and state conferences, coalitions and forums.
- c Author magazine and newsletter articles for trade publications.
- c Prepare advocacy and communications materials.
- c Manage budgets and contractors.
- c Other areas of experience: international environmental standards, sustainable forestry programs, watershed management, endangered species.

U.S. ENVIRONMENTAL PROTECTION AGENCY, Washington D.C. 1989
Regulatory Impact Analyst, Office of Solid Waste

- c Supervisory responsibility for professional staff in the Resource Conservation and Recovery Act program.
- c Develop manage and organize teams to review economic, benefit and cost methodologies for solid and hazardous waste rulemakings.
- c Manage contractors and budgets.
- c Brief senior EPA management and industry.

U.S. ENVIRONMENTAL PROTECTION AGENCY, Washington D.C. 1984- 1988
Regulatory Economist, Office of Water

- c Design and perform economic/financial analyses of industry compliance with water pollution control regulations and standards.
- c Direct and implement economic and financial strategies specific to industrial groups.
- c Team with attorneys, engineers and scientists to develop sound legal, engineering and scientific principles for rule development.
- c Brief Senior EPA management, Congressional staffs, OMB, attend meetings with industry representatives, investigate plant sites, represent EPA at conferences and give presentation.

U.S. FEDERAL TRADE COMMISSION, Washington D.C. 1984
Research Analyst

- c Analyze sales, divestitures, mergers and research and development funds within manufacturing industries and companies.
- c Responsibilities include summarizing economic and financial articles, researching Securities and Exchange 10K reports and financial handbooks to analyze and report on sales, assets, subsidiaries and product lines.

EDUCATION:

- M.B.A. Syracuse University, 1983. (Concentration: Finance & Public Policy)
- M.S. State University of New York College of Environmental Science & Forestry, 1982. (Concentration: Forestry)
- B.S. University of New Hampshire, 1977 (Concentration: Environmental Science)

REFERENCES: Furnished upon request.

w6 2/3

| |
|--|
| rafael@socrates.berkeley.edu,2/13/98 2:58 PM,Re: Seeking Names for IPCC Th 1 |
|--|

Date: Fri, 13 Feb 1998 10:58:57 -0800 (PST)
 From: rafael@socrates.berkeley.edu
 Reply-To: rafael@socrates.berkeley.edu
 To: mtaylor@usgcrp.gov
 Cc: rafael friedmann <rafldc@dante.lbl.gov>
 Subject: Re: Seeking Names for IPCC Third Assessment Report
 Mime-Version: 1.0

Dear Ms. Melissa Taylor:

I just recieved the email on your request for names for the IPCC Third Assessment Report. I understand that the names were due by Feb. 9th and hope that you are being a bit flexible with that deadline. I have filled the 2 page form and include a quick bibliographic sketch.

I would like to propose myself as a review editor or resource person.

I would also like to propose two colleagues of mine in Mexico, Dr. Omar Masera and Dr. Claudia Scheinbaum. I have obviously not had time to contact them on this matter and will forward your message to them in a few minutes, so that should they be interested, they can forward the necessary CV materials.

>>SUGGESTIONS OF EXPERTS TO PARTICIPATE IN THE THIRD
 >>ASSESSMENT REPORT OF THE IPCC

>>

>>Please submit one form for each nominee along with curriculum vitae and/or one
 >>page biographical sketch. Note that this form consists of two pages.

>>

>>Full Name: Rafael Friedmann
 >>Title: Ph.D.
 >>Affiliation: Private Energy Consultant
 >>Full Address: 2815 Benvenue Avenue, Berkeley, CA 94705, USA
 >>Tel: 510-548 0748
 >>Fax:
 >>Email: rafriedmann@lbl.gov
 >>Expertise: Mitigation strategies: Energy efficiency in
 Latin America: Potential and Implementation
 Barriers

>>Nominated by: Rafael Friedmann

| |
|--|
| rafael@socrates.berkeley.edu,2/13/98 2:58 PM,Re: Seeking Names for IPCC Th 2 |
|--|

>>

> >What role would you recommend that this expert play in the preparation of
> >the Third Assessment Report? (Please try to select one only, recognizing
> >that this may differ by chapter).

Review Editor or Resource Person

> >Has this person been contacted and given concurrence to be nominated?

>>

> >O Yes

Biographical sketch (can send full CV if you need it and decide to waive Feb 9 deadline--did this sketch from memory, and thus dates and exact names of theses might be a bit off--decided that I could always submit full CV and that better to get this document off to you ASAP).

ACADEMIC TRAINING

12/96 PhD from the Energy & Resources Group, University of California, Berkeley

Thesis: Saving Electricity in Mexican Homes: Implementation Issues and Savings Potential.

05/84 MSc from the Faculty of Mechanical Engineering, Technion Israel Institute of Technology

Thesis: The Impact of the Flowrate on a Solar Water Heating System

05/79 BSc from Energy Engineering, Universidad Autonoma Metropolitana-Iztapalapa, Mexico.

Thesis: Using a Solar Air Collector Roof for Cooling a Cow Stable in Hot and Humid Regions of Mexico (in Spanish).

WORK EXPERIENCE

1997-> Private energy consultant to NRDC, LBNL, Mexican Energy Intelligence, SEI. Work has included co-authoring a paper on JI in Mexico, promoting energy efficiency and renewables in Latin America, gathering NGO input on sustainable energy initiatives for the upcoming Summit of the Americas; critique of both the World

rafael@socrates.berkeley.edu,2/13/98 2:58 PM,Re: Seeking Names for IPCC Th 3

Bank and the IADB's drafts of their proposed future energy strategy documents; presentation on Mexican sources of electric sector data; review of proposal for introducing efficient lighting technology (compact fluorescent lamps-CFL) in developing countries.

1994 Consultant to SRC and RMI as liason for trips by E. Woychik and Dr. Amory Lovins to Mexico to promote integrated resource planning software and energy efficiency, respectively.

1992-96 Research Assisstant at LBNL's International Energy Studies Group of the Energy Analysis Program. Worked on a feasibility study for Illumex--a 1.7 million CFL project in Mexico; a database of climate change activities in 15 countries; participated in a mission to design a sustainable energy program for Costa Rica.

1987-91 Teaching Assistant at UC Berkeley. Helped teach courses on Energy & Society, Global environmental problems, and Energy Efficiency.

1985 Research Engineer at the Scientific Research Foundation. Worked with Dr. Harry Tabor, Israel's solar energy pioneer calculating optimal tilt adjustments to simple concentrating solar collector for use in rural areas of the developing world.

1982-84 Teaching Assistant at the Technion. Helped teach courses or labs on Thermodynamics, Heat Transfer, and Fluid Mechanics.

1980-84 Worked in Lordan, a solar collector factory at Kibutz Kfar Szold, Israel. Built collectors, and researched solar water heating systems efficiency.

PUBLICATIONS

Have published extensively (in English and Spanish) on energy efficiency opportunities in Mexico's residential sector. Can send full list if you want.

> > - Page 2 -

> >Name of Expert: Rafael Friedmann

>>

> >Please indicate the most appropriate subject area(s); if you are

> >designating more than one, please rank

rafael@socrates.berkeley.edu,2/13/98 2:58 PM,Re: Seeking Names for IPCC Th 4

- > >with 1's indicating highest relevance/priority and 2's indicating secondary
- > >relevance/priority.
- >>
- > > Working Group II: Impacts and Adaptation
- >>
- > >5. Energy, Industry, and Transportation
- >>
- > >Working Group III: Mitigation Options
- >>
- > >1. Potential of technologies and practices to reduce greenhouse gases from energy supply and demand, industrial and transportation sources, waste disposal, agriculture and forestry, etc.
- >>
- > > 2. Barriers to effective use, diffusion, and transfer of these technologies and practices.
- >>
- > >3. Policies and policy instruments to harness the potential of technologies and practices and to overcome barriers, including incentives for the penetration of new technologies, national and regional information centres, public and private sector R&D programs, fiscal instruments (taxes, subsidy elimination, internalization of externalities, negotiated agreements, joint implementation, emissions trading and regulation)
- >>
- > >4. Regional assessment of the mitigation potential of these technologies,practices and policies for all sectors and for sources and sinks, including their local and regional dimensions.
- >>
- > >6. Assessment of emission scenarios to achieve stabilization of atmospheric concentrations of greenhouse gases and of the relevant policy mix underlying these scenarios.

W63

SUGGESTIONS OF EXPERTS TO PARTICIPATE IN THE THIRD ASSESSMENT REPORT OF THE IPCC

Please submit one form for each nominee along with curriculum vitae and/or one page biographical sketch. Note that this form consists of two pages.

Full Name: Richard Schmalensee
 Title: Professor
 Affiliation: MIT Sloan School
 Full Address: 50 Memorial Drive
Cambridge, MA 02142
 Tel: 617-253-2957
 Fax: 617-258-6617
 Email: r.schmal@mit.edu
 Expertise: Economic/regulatory policy
 Nominated by: ?

What role would you recommend that this expert play in the preparation of the Third Assessment Report? (Please try to select one only, recognizing that this may differ by chapter).

- Lead Author (coordination and integration of scientific/technical information)
- Contributing Author (support lead author in preparation of specific text/data)
- Review Editor (ensure scientific/technical validity and balance)
- Resource Person (address technical questions, participate in expert review, attend expert meetings, etc.)

Has this person been contacted and given concurrence to be nominated?

- Yes
- No

Please include a curriculum vitae and/or one page biographical sketch and submit by February 9, 1998 to:

Melissa J. Taylor, USGCRP Office
 400 Virginia Avenue, SW, Suite 750
 Washington, DC 20024
 tel: 202 314 2239/fax: 202 488 8681
 email: mtaylor@usgcrp.gov

For each nominee, please also submit Page 2 which covers subject area.

CURRICULUM VITAE

Richard Schmalensee

Massachusetts Institute of Technology
Room E52-474, 50 Memorial Drive
Cambridge, Massachusetts 02139
(617) 253-2957 fax: 258-6617

20 Malia Terrace
Chestnut Hill, Massachusetts 02167
(617) 566-0664 fax: 566-6492

EDUCATION:

MASSACHUSETTS INSTITUTE OF TECHNOLOGY
S.B., Economics, Politics and Science, 1965
Ph.D., Economics, 1970

EMPLOYMENT:

MASSACHUSETTS INSTITUTE OF TECHNOLOGY
1996- Deputy Dean, Sloan School of Management
1991- Director, Center for Energy and Environmental Policy Research
1988- Gordon Y Billard Professor of Economics and Management
1986- Professor, Department of Economics
1979- Professor, Sloan School of Management
1977-79 Associate Professor, Sloan School of Management
1970 Assistant Professor, Sloan School of Management (Spring)
1967-69 Instructor, Sloan School of Management

PRESIDENT'S COUNCIL OF ECONOMIC ADVISORS
1989-91 Member
1967 Junior Staff Economist (Summer)

UNIVERSITY OF CALIFORNIA, SAN DIEGO
1974-77 Associate Professor, Department of Economics
1970-74 Assistant Professor, Department of Economics

VISITING APPOINTMENTS:

1985-86 Visiting Professor, Harvard Business School
1985 Visiting Professor, CORE, University of Louvain, Belgium (Spring)
1980-81 Visiting Scholar, Department of Economics, Harvard University
1973-74 Visiting Associate Professor and Research Fellow, Department of Economics,
University of Louvain, Belgium

EDITORIAL SERVICE:

Editorial Board: *Journal of Economics and Management Strategy*, 1992-
 Associate Editor: *Journal of Economic Perspectives*, 1992-
 Associate Editor: *Zeitschrift für Nationalökonomie*, 1987-89, 1993-
 Associate Editor: *International Journal of Industrial Organization*, 1982-89
 Board of Editors: *American Economic Review*, 1982-86
 Associate Editor: *Recherches Economiques de Louvain*, 1979-89
 Founding Editor, 1978-89; Co-Editor, 1989-: MIT Press Series, *Regulation of Economic Activity*
 Associate Editor, 1977-81; Board of Editors, 1981-89: *Journal of Industrial Economics*

PROFESSIONAL ASSOCIATIONS:

American Economic Association: Executive Committee, 1993-95; Budget Committee, 1993-95;
 Nominating Committee, 1987; Advisory Committee on Meetings Program, 1986, 1989, 1994
 Econometric Society: Chairman, Local Arrangements Committee, 1985 World Congress; Chairman,
 Program Committee, 1980 North American Fall Meeting; Program Committee, 1980 World
 Congress

SLOAN SCHOOL ADMINISTRATION:

Deputy Dean, 1996-
 Area Head: Economics, Finance, and Accounting, 1987-89
 Coordinator: Applied Economics Group, 1986-87
 Chairman: Doctoral Program Committee, 1982-85

CONSULTATION AND GOVERNMENT SERVICE (SELECTED):

National Research Council, Transportation Research Board, Committee for the Study of Transportation
 and a Sustainable Environment, 1994-97
 Environmental Economics Advisory Board, U.S. EPA, 1992-96, 1998-
 Chairman: Clean Air Act Compliance Analysis Council, U.S. EPA, Chairman 1992-96, Member 1997-
 Special Consultant: National Economic Research Associates, Inc., 1981-89, 1991-
 Antitrust Division, U.S. Department of Justice, 1991-92 (1992 Merger Guidelines)
 Bureau of Economics, U.S. Federal Trade Commission, 1972-81 (Antitrust Policy)

AWARDS AND OTHER PROFESSIONAL ACTIVITIES:

Environmental Policy Fellow, American Council for Capital Formation Center for Policy Research,
 1997-98
 Fellow: American Academy of Arts and Sciences, 1995-
 (with P.L. Joskow and N. Tsukanova) 1995 Edward A. Hewett Prize, American Association for the
 Advancement of Slavic Studies
 Board of Academic Advisors: Pioneer Institute for Public Policy Research, 1995-
Revista de Análisis Económico Lecture, Econometric Society Latin American Meeting, 1994
 Research Associate: National Bureau of Economic Research, 1992-
 Board of Directors: Long Island Lighting Company, 1992-
 Donald Gilbert Memorial Lecture, University of Rochester, 1992
 Board of Directors: American Council for Capital Formation Center for Policy Research, 1991-
 Fellow: Econometric Society, 1982-

BOOKS WRITTEN:

The Economics of Advertising (Vol. 80, Contributions to Economic Analysis), Amsterdam: North-Holland, 1972.

Applied Microeconomics: Problems in Estimation, Forecasting and Decision-Making, San Francisco: Holden-Day, 1973.

An Introduction to Applied Macroeconomics (with E. Kuh), Amsterdam: North-Holland, 1973. Japanese Edition, Tokyo: McGraw-Hill Kogakusha, 1975.

The Control of Natural Monopolies, Lexington: D.C. Heath (Lexington Books), 1979.

Markets for Power: An Analysis of Electric Utility Deregulation (with P. L. Joskow), Cambridge: MIT Press, 1983.

Economics, 2nd Edition (with S. Fischer and R. Dornbusch), New York: McGraw-Hill, 1988.

BOOKS EDITED:

The Empirical Renaissance in Industrial Economics (co-editor, with T. F. Bresnahan), Oxford: Basil Blackwell, 1987.

Handbook of Industrial Organization (co-editor, with R. D. Willig), Amsterdam: North-Holland, 1989.

JOURNAL ARTICLES:

"Regulation and the Durability of Goods." *Bell Journal of Economics and Management Science*, Vol. 1 (Spring 1970), pp. 54-64.

"Consumer's Surplus and Producer's Goods." *American Economic Review*, Vol. 61 (September 1971), pp. 682-687.

"A Note on Monopolistic Competition and Excess Capacity." *Journal of Political Economy*, Vol. 80 (May/June 1972), pp. 586-591.

"Option Demand and Consumer's Surplus: Valuing Price Changes Under Uncertainty." *American Economic Review*, Vol. 62 (December 1972), pp. 813-824.

"A Note on the Theory of Vertical Integration." *Journal of Political Economy*, Vol. 81 (March/April 1973), pp. 442-449.

"Brand Loyalty and Barriers to Entry." *Southern Economic Journal*, Vol. 40 (April 1974), pp. 579-588.

"Market Structure, Durability, and Maintenance Effort." *Review of Economic Studies*, Vol. 41 (April 1974), pp. 277-287.

- "Estimating the Costs and Benefits of Utility Regulation." *Quarterly Review of Economics and Business*, Vol. 14 (Summer 1974), pp. 51-64.
- "Consumer Behavior versus Economic Theory." *Recherches Economiques de Louvain*, Vol. 40 (September 1974), pp. 261-276.
- "Alternative Models of Bandit Selection." *Journal of Economic Theory*, Vol. 10 (June 1975), pp. 333-342.
- "An Experimental Study of Expectation Formation." *Econometrica*, Vol. 44 (January 1976), pp. 17-41.
- "Another Look at the Social Valuation of Input Price Changes." *American Economic Review*, Vol. 66 (March 1976), pp. 239-243.
- "Resource Exploitation Theory and the Behavior of the Oil Cartel." *European Economic Review*, Vol. 7 (April 1976), pp. 257-279.
- "Advertising and Profitability: Further Implications of the Null Hypothesis." *Journal of Industrial Economics*, Vol. 25 (September 1976), pp. 45-54.
- "A Model of Promotional Competition in Oligopoly." *Review of Economic Studies*, Vol. 43 (October 1976), pp. 493-507.
- "Is More Competition Necessarily Good?" *Industrial Organization Review*, Vol. 4 (1976), pp. 120-121.
- "Public Investment Criteria, Insurance Markets, and Income Taxes." *Journal of Public Economics*, Vol. 6 (November 1976), pp. 425-445.
- "Valuing Changes in Regulated Firms' Input Prices." *Southern Economic Journal*, Vol. 43 (January 1977), pp. 1346-1351.
- "Using the H Index of Concentration with Published Data." *Review of Economics and Statistics*, Vol. 59 (May 1977), pp. 186-193.
- "Comparative Static Properties of Regulated Airline Oligopolies." *Bell Journal of Economics*, Vol. 8 (Autumn 1977), pp. 565-576.
- "Nonconvexity and Optimal Exhaustion of Renewable Resources" (with T. R. Lewis). *International Economic Review*, Vol. 18 (October 1977), pp. 535-552.
- "Common Stock Volatility Expectations Implied by Option Premia" (with R. R. Trippi). *Journal of Finance*, Vol. 33 (March 1978), pp. 129-147.
- "A Note on Economies of Scale and Natural Monopoly in the Distribution of Public Utility Services." *Bell Journal of Economics*, Vol. 9 (Spring 1978), pp. 270-276.
- "A Model of Advertising and Product Quality." *Journal of Political Economy*, Vol. 87 (June 1978), pp. 485-504.

- "Life-Cycle Costing for Consumers of Energy-Conserving Devices" (with S. S. Penner and M. R. Brambley). *Energy*, Vol. 3 (July/August 1978), pp. 415-419.
- "Entry Deterrence in the Ready-to-Eat Breakfast Cereal Industry." *Bell Journal of Economics*, Vol. 9 (Autumn 1978), pp. 305-327. Also in *Market Strategy and Structure* (J.M.A. Gee and G. Norman, eds.), London: Harvester Wheatsheaf, 1992, pp. 84-111.
- "Market Structure, Durability, and Quality: A Selective Survey." *Economic Inquiry*, Vol. 17 (April 1979), pp. 177-198.
- "On the Use of Economic Models in Antitrust: The ReaLemon Case." *University of Pennsylvania Law Review*, Vol. 127 (April 1979), pp. 994-1050. Also in *Antitrust Law and Economics* (O. E. Williamson, Editor), Houston: Dame Publications, 1980, pp. 97-153.
- "Nonconvexity and Optimal Harvesting Strategies for Renewable Resources" (with T. R. Lewis). *Canadian Journal of Economics*, Vol. 12 (November 1979), pp. 677-691.
- "Appropriate Government Policy Toward Commercialization of New Energy Supply Technologies." *Energy Journal*, Vol. 1 (April 1980), pp. 1-40.
- "Advertising and Aggregate Consumption: An Analysis of Causality" (with R. Ashley and C. W. J. Granger). *Econometrica*, Vol. 48 (July 1980), pp. 1149-1168.
- "On Oligopolistic Markets for Nonrenewable Natural Resources" (with T. R. Lewis). *Quarterly Journal of Economics*, Vol. 95 (November 1980), pp. 475-491.
- "Qualitative Asymptotic Synthesis in Simple Optimal Control Problems." *Economic Letters*, Vol. 5 (1980), pp. 349-352.
- "Output and Welfare Implications of Monopolistic Third-Degree Price Discrimination." *American Economic Review*, Vol. 71 (March 1981), pp. 242-247.
- "Risk and Return on Long-Lived Tangible Assets." *Journal of Financial Economics*, Vol. 9 (June 1981), pp. 185-205.
- "Monopolistic Two-Part Pricing Arrangements." *Bell Journal of Economics*, Vol. 11 (Autumn 1981), pp. 445-466.
- "Economies of Scale and Barriers to Entry." *Journal of Political Economy*, Vol. 89 (December 1981), pp. 1228-1238.
- "Commodity Bundling by Single-Product Monopolies." *Journal of Law and Economics*, Vol. 25 (April 1982), pp. 67-71.
- "Antitrust and the New Industrial Economics." *American Economic Review*, Vol. 72 (May 1982), pp. 24-28.

- "Cartel Deception in Markets for Nonrenewable Resources" (with T. R. Lewis). *Bell Journal of Economics*, Vol. 13 (Spring 1982), pp. 263-271.
- "Another Look at Market Power." *Harvard Law Review*, Vol. 95 (June 1982), pp. 1789-1816.
- "Product Differentiation Advantages of Pioneering Brands." *American Economic Review*, Vol. 72 (June 1982), pp. 349-365. ("Errata," *AER*, Vol. 73 (March 1983), p. 250).
- "George Stigler's Contributions to Economics." *Scandinavian Journal of Economics*, Vol. 85 (March 1983), pp. 77-86.
- "Advertising and Entry Deterrence: An Exploratory Model." *Journal of Political Economy*, Vol. 91 (August 1983), pp. 636-653.
- "The Impact of Scale and Media Mix on Advertising Agency Costs" (with A. J. Silk and R. Bojanek). *Journal of Business*, Vol. 56 (October 1983), pp. 453-475.
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http://uiatna.stmor.uiuc.edu/%28Ch%29/dep/zac/wucbbles/don_vuuc.nuni

Donald James Wucbbles

- Chapter coordinator and lead author, UNEP/NMO Scientific Assessment on Stratospheric Ozone, 1993-1994
- Lead author, IPCC Scientific Assessment of Climate Change, 1993-1995
- Member, DOE Managers of Global Climate Change, 1993 - 1994
- Member, Energy Modeling Forum 14, 1993 - 1995
- Member, National Technical Advisory Committee, National Institute for Global Environmental Change, 1993 - 1994
- Member, International Civil Aviation Organization, Emissions Inventories Sub-Group, 1993 - present
- Project Leader, International Global Atmospheric Chemistry Project, Global Emissions Inventory Activity, 1993 - present
- Lead Author, Global Climate Change and the Social Sciences: An International Assessment, 1993 - present
- Member, Organizing Committee, Global Change Institute on Integrated Assessment Modeling, 1994
- Member, Program Committee, Western Pacific Geophysics Meeting, American Geophysical Union, 1993 - 1994
- Member, Science Advisory Committee for the GLOBE Project, 1994-1995.
- Member, MEDEA Working Group, 1994-present
- Member, Global Modeling Initiative, 1994-present
- Member Representative, University Corporation for Atmospheric Research, 1994-present
- Member, Organizing Committee, Quadrennial Ozone Symposium, 1995-1996
- Member, U.S. National Academy of Sciences Committee on Fire Suppression Substitutes and Alternatives to Halons, 1996
- Chair, Publicity Committee, Atmospheric Sciences Section, American Geophysical Union, 1995-present
- Member, Executive Committee, Atmospheric Sciences Section, American Geophysical Union, 1996
- Member, Advisory Committee, Department of Atmospheric Sciences, University of Illinois, 1996-present

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P. 07

http://niatma.atmos.uiuc.edu/%28Ch%29/dept/fac/wuobhies/low_vitae.html

Donald James Wuobhies

Professional Affiliations

- Member, American Geophysical Union
- Member, American Meteorological Society
- Member, American Association for the Advancement of Science
- Member, American Chemical Society
- Member, Sigma Xi

Highlights of Professional Activities (past 5 years)

- Member, NASA Upper Atmospheric Research Satellite Science Team, 1985-1994
- Member and lead author, IPCC Working Group I, Scientific Assessment on Climate Change, 1989-present
- Member, NASA Advisory Panel, High Speed Research Program, 1989-1995
- Member, ICMUA Working Group on Modeling of the Middle Atmosphere, 1988-present
- Member, IAGA Working Group on Solar Radiation and on External Forcing of the Middle Atmosphere, 1989-present
- Series Editor, Global Atmospheric Science Series, Lewis Publishers, 1990-present
- Member, National Academy of Sciences Committee on Global Change, Working Group on Solar Influences on Global Change, 1990-94
- Chair, NASA Emissions Scenarios Committee, 1991-present
- Chapter coordinator and lead author, UNEP/WMO Scientific Assessment of Stratospheric Ozone, 1991-1992
- Member, IAMAP/IAGA Organizing Committee for Middle Atmosphere Symposium, July 12-23, 1993 in Yokohama, Japan
- Member, DOE Processes Research Advisory Group, 1992-1994
- Member, United States Environmental Task Force, 1992-1994
- Member, DOE UVB Organizing Committee, 1992-1993
- Member, International Steering Committee, Recent Trends in Environmental Physics, 1993

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Donald James Wuebbles

Tau Beta Pi (Scholastics Honorary)**American Men and Women of Science, 1982-present****Who's Who in Frontier Science and Technology, 1983-present****Who's Who in California, 1984-1995****International Who's Who of Contemporary Achievement, 1984-present****Men of Achievement, 1985-present****Who's Who in the West, 1986-1995****Who's Who in America, 1993-present****LLNL Special Achievement Award for Best Journal Paper, 1991****LLNL Special Achievement Award for Best Book Publication, 1993****Dictionary of International Biography, 1994-present****Who's Who in the World, 1994-present****Who's Who in the Midwest, 1995-present****Five Thousand Personalities of the World, 1996-present****Professional Employment**

| | |
|--------------|--|
| 1970-1972 | Research Assistant, University of Illinois, Urbana |
| 1972-1973 | Atmospheric Scientist, Aeronomy Lab., National Oceanic and Atmospheric Administration, Boulder, CO |
| 1973-1994 | Atmospheric Scientist, University of California, Lawrence Livermore National Laboratory, Livermore, CA |
| 1987-1994 | Group Leader, Global Radiation, Chemical, and Dynamical Interactions, University of California, Lawrence Livermore National Laboratory, Livermore CA |
| 1994-present | Professor, Department of Atmospheric Sciences, University of Illinois, Urbana, IL |
| 1994-1996 | Head, Department of Atmospheric Sciences, University of Illinois, Urbana, IL |
| 1996-present | Director, The Environmental Council, University of Illinois, Urbana, IL |

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P. 05

http://uiatma.atmos.uiuc.edu/%28Gh%29dept/fac/wuebbles/don_vfac.html

Donald James Wuebbles

1991. Dr. Wuebbles is a member of science committees for various U.S. and international organizations. He is also a lead author on recent international assessment reports dealing with ozone and climate change, including the *Scientific Assessment of Ozone Depletion: 1994* (World Meteorological Organization, 1994), *Climate Change 1994: Radiative Forcing of Climate Change* (Intergovernmental Panel on Climate Change, 1994), *Change 1995: The Science of Climate Change* (Intergovernmental Panel on Climate Change, 1995), and *The 1995 Scientific Assessment of the Atmospheric Effects of Stratospheric Aircraft* (NASA, 1995). He is also a lead author on a new assessment of the effects of current projected subsonic aircraft on the global environment.

Business Addresses

| The Environmental Council | |
|------------------------------------|---|
| University of Illinois | Telephone: 217/244-1568 |
| 1101 W. Peabody | FAX: 217/333-8046 |
| Urbana, IL 61801 | E-mail: wuebbles@atmos.uiuc.edu |
| Department of Atmospheric Sciences | |
| University of Illinois | Telephone: 217/244-1568 |
| 105 S. Gregory Avenue | FAX: 217/244-4393 |
| Urbana, IL 61801 | E-mail: wuebbles@atmos.uiuc.edu |

Home Address

| | |
|--------------------------|---------------------|
| 3405 S. Persimmon Circle | Phone: 217/328-6845 |
| Urbana, IL 61801 | |

Education

- B.S., 1966-1970, University of Illinois, Urbana
- M.S., 1970-1972, University of Illinois, Urbana
- Ph.D., 1976-1983, University of California, Davis

Honors or Awards

- NOAA Special Achievement Award, 1972
- NASA Group Achievement Award, 1982
- Eta Kappa Nu (Scholastics Honorary)
- Sigma Tau (Scholastics Honorary)
- Phi Eta Sigma (Scholastics Honorary)

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Donald James Wuebbles

Donald James Wuebbles

Director, The Environmental Council and Professor, Department of Atmospheric Sciences

University of Illinois

Biography

Donald J. Wuebbles is Director of the Environmental Council; as Director, he is responsible for oversight and development of educational and research programs at the University of Illinois relating to the environment. He is also a member of the Council of Deans at the university. He has taken leave from his position as Head of the Department of Atmospheric Sciences, but remains a Professor of Atmospheric Sciences at the University of Illinois while acting as Director. Dr. Wuebbles earned his B.S. (1970) and M.S. (1972) degrees in Electrical Engineering from the University of Illinois. He received his Ph.D. in Atmospheric Sciences from the University of California at Davis in 1983. Dr. Wuebbles spent many years as a research scientist and group leader at the Lawrence Livermore National Laboratory before returning to the University of Illinois in 1994. His research emphasizes the development and use of mathematical models of the atmosphere to study the chemical and physical processes that determine atmospheric structure. He is the author of over 200 scientific articles, most of which relate to atmospheric chemistry and global climate change as affected by both human activities and natural phenomena. He also directs a number of research projects that are primarily oriented towards improving our understanding of the impacts that man-made and natural trace gases may be having on the Earth's climate and on tropospheric and stratospheric chemistry, with emphasis on concerns about global ozone.

Dr. Wuebbles is best known for his studies of global atmospheric ozone and of the radiative forcing on climate. He has played a major role in the national and international assessments of the effects of chlorofluorocarbons (CFCs) and other halocarbons on ozone. He developed the concept of Ozone Depletion Potentials used in most policymaking relative to protection of the ozone layer (e.g., the Montreal Protocol and its amendments, the U.S. Clean Air Act). He is co-author of an analogous concept, Global Warming Potentials, being used in considerations of concerns about greenhouse gases and their potential effects on climate. Dr. Wuebbles and his research team have developed a range of computational models of global atmospheric chemistry and physics that are applied to the study of natural (e.g., volcanic eruptions; solar flux variations; solar particle effects) and human-related (e.g., emissions of CFCs, halons, other halocarbons, methane, plus nitrogen oxides and other gases and aerosols from aircraft) effects on tropospheric and stratospheric ozone. These models are also used in studies along with data from atmospheric measurements to further our understanding of the relationships between chemical and physical processes in the atmosphere. Dr. Wuebbles is also pursuing studies of the effects of atmospheric chemistry on the current concerns about greenhouse gas effects on climate change; he has been a lead author on each of the IPCC (Intergovernmental Panel on Climate Change) assessments of the concerns about climate change. In the past, Dr. Wuebbles has also developed and applied models to studies of regional air pollution. A new three-dimensional chemistry-transport model is being developed for studies of tropospheric (as well as stratospheric) processes and studies of chemistry-climate interactions.

Various organizations have recognized Dr. Wuebbles' work; his honors include being named to the *International Who's Who of Contemporary Achievement*, *Who's Who in America*, *Who's Who in Frontier Science and Technology*, *American Men and Women of Science*, and *Men of Achievement*. A book written by Dr. Wuebbles and Dr. Jae Edmonds, *A Primer on Greenhouse Gases*, was published in

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STRAT PROTECTION DIV.

FAX NO. 2022339665

P. 03

Name of Expert: Donald J. Wuebbles ^{- Page 2}

Please indicate the most appropriate subject area(s); if you are designating more than one, please rank with 1's indicating highest relevance/priority and 2's indicating secondary relevance/priority.

| Working Group I: Climate System Science | |
|--|--|
| 1 | The Climate System: An Overview |
| 1 | Radiative Forcing of Climate Change |
| 2 | Observed Climate Variability and Change |
| 1 | Physical Climate Processes and Feedbacks |
| 1 | Biological Climate Processes and Feedbacks |
| 2 | Climate Models: Evaluation |
| 2 | Global Climate Models: Projections of Future Change |
| | Regional Information: Models and Projections |
| | Changes in Sea Level |
| 1 | Detection of Climate Change and Attribution of Causes |
| 1 | Advancing our Understanding |
| Working Group II: Impacts and Adaptation | |
| | Forests and Forestry |
| | Agriculture and Food Security |
| | Rangelands |
| | Deserts |
| | Soils and Land Degradation |
| | Mountain Regions |
| | Cryosphere |
| | Hydrology and Water Resources Management |
| | Freshwater, Wetland, Coastal and Marine Ecosystems (including Fisheries) |
| | Infrastructure in Coastal Zones and on Small Islands |
| | Human Settlement Patterns and Conditions |
| | Energy, Industry, and Transportation |
| | Financial Services (including Insurance) |
| | Human Health |
| 1 | Integrated Assessment |
| Working Group III: Mitigation Options | |
| | Potential of technologies and practices to reduce greenhouse gases from energy supply and demand, industrial and transportation sources, waste disposal, agriculture and forestry, etc. |
| | Potential of technologies and practices to enhance the removal of greenhouse gases, including both biological sinks and technologies to capture and store carbon and technologies. |
| | Barriers to effective use, diffusion, and transfer of these technologies and practices. |
| | Policies and policy instruments to harness the potential of technologies and practices and to overcome barriers, including incentives for the penetration of new technologies, national and regional information centres, public and private sector R&D programs, fiscal instruments (taxes, subsidy elimination, internalization of externalities, negotiated agreements, joint implementation, emissions trading and regulation) |
| 1 | Global assessment of the mitigation potential of these technologies, practices and policies. |
| | Regional assessment of the mitigation potential of these technologies, practices and policies for all sectors and for sources and sinks, including their local and regional dimensions. |
| 1 | Assessment of emission scenarios to achieve stabilization of atmospheric concentrations of greenhouse gases and of the relevant policy mix underlying these scenarios. |
| | Costs and benefits of achieving different emission profiles and different stabilization levels and costs and benefits of achieving different emission limitation and reduction profiles at a regional level, including cross-sectoral assessment of the use of discount rates. |
| | Assessment of the social, economic and environmental impacts of mitigation actions on all countries, including impact on trade relations. |
| | Assessment of decision-making frameworks involving both adaptation and mitigation approaches, equity and sustainable development considerations, integrated environmental assessment tools and other relevant aspects, including synergy with other regimes. |

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P. 02

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FAX NO. 2022338665

1/2/3

SUGGESTIONS OF EXPERTS TO PARTICIPATE IN THE THIRD ASSESSMENT REPORT OF THE IPCC

Please submit one form for each nominee along with curriculum vitae and/or one page biographical sketch. Note that this form consists of two pages.

Full Name: RONALD J. WUEBBLES
 Title: DIRECTOR AND PROFESSOR
 Affiliation: UNIVERSITY OF ILLINOIS
 Full Address: 105 S. GREGORY
URBANA, IL 61801-3070
 Tel: (217) 244-1568
 Fax: (217) 244-4393
 Email: WUEBBLES@ATMOS.UIC.EDU
 Expertise: ATMOSPHERIC COMPOSITION; RADIATIVE FORCING; INTEGRATED ASSESSMENT
 Nominated by:

What role would you recommend that this expert play in the preparation of the Third Assessment Report? (Please try to select one only, recognizing that this may differ by chapter).

- Lead Author (coordination and integration of scientific/technical information)
- Contributing Author (support lead author in preparation of specific text/data)
- Review Editor (ensure scientific/technical validity and balance)
- Resource Person (address technical questions, participate in expert review, attend expert meetings, etc.)

Has this person been contacted and given concurrence to be nominated? (Note: if the U.S. Government decides to nominate an expert for a role requiring a significant time commitment, this will be double-checked before the name is sent forward).

- Yes
- No

What agency/institution (if any) would be expected to be supporting this person's time during participation in the IPCC process? USEPA/OAR

Please include a curriculum vitae and/or one page biographical sketch and submit by February 9, 1998 to:

Melissa J. Taylor, USGCRP Office
 400 Virginia Avenue, SW, Suite 750
 Washington, DC 20024
 tel: 202 314 2239/fax: 202 488 8681
 email: mtaylor@usgcrp.gov

For each nominee, please also submit Page 2 which covers subject area.



OFFICE OF THE US GLOBAL CHANGE RESEARCH PROGRAM
400 Virginia Avenue, SW
Suite 750, Washington, DC 20024
Phone: 202-488-8650 Fax: 202-488-8681

TO: Adele Morris
FROM: LaShaunda Malone (tel: (202)314-2238; e-mail: lmalone@usgcrp.gov)
Subject: NEW IPCC Nominations
DATE: 2/20/98

This fax 64 page(s)

MESSAGE:

Dr. Morris,

I have attached copies of new IPCC nominations and new supporting materials for past nominations. Sorry about the length of this fax, but I thought that this would be the best way to get the nominations to you. The first fax is 21 pages excluding the cover page. The second fax is 21 pages, and the third fax is 22 pages.

Best regards,
LaShaunda

**FACSIMILE COVER SHEET
OFFICE OF THE UNITED STATES TRADE REPRESENTATIVE
EXECUTIVE OFFICE OF THE PRESIDENT
WASHINGTON, DC 20508**

Date: February 20, 1998

Number of Pages Including Cover:

TRADE POLICY REVIEW GROUP

| Name: | Agency: | Phone No: | Fax No: |
|----------------------------------|----------------|------------------|----------------|
| August Schumacher | Agriculture | 720-3111 | 720-8254 |
| David Aaron | Commerce | 482-2867 | 482-2925 |
| attn: Sherry Lewis-Khanna | | | |
| John Haveman | CEA | 395-3310 | 395-6853 |
| Andrew Gilmour | Defense | 703-697-1130 | 703-695-1495 |
| Robert Gee | Energy | 586-5858 | 586-0861 |
| David van Hoogstraten | EPA | 260-8882 | 260-3828 |
| Dr. Philip Lee | HHS/FDA | 301-827-3344 | 301-443-6906 |
| Tom Fox | IDCA | 712-5988 | 216-3426 |
| attn: Bob Siegel | | | |
| Brooks Yeager | Interior | 208-6182 | 208-4561 |
| Charles Stark | Justice | 514-2464 | 514-4508 |
| Andrew Samet | Labor | 219-6043 | 219-5980 |
| Lael Brainard | NEC | 395-5104 | 395-6853 |
| Robert Kyle | NSC | 456-9291 | 456-9290 |
| attn: Malcolm Lee | | | |
| Phil DuSault | OMB | 395-4770 | 395-3307 |
| Stuart Eizenstat | State | 647-7575 | 647-5713 |
| Charles Hunnicutt | Transportation | 366-8822 | 493-2005 |
| Timothy Geithner | Treasury | 622-0656 | 622-5304 |
| Dan Leahy | USITC | 205-3141 | 205-2139 |

FROM: Frederick L. Montgomery, Executive Secretary, TPRG

PHONE: 202-395-3475

FAX: 202-395-3640

TPRG Memorandum

Ambassador Fisher has prepared a classified memorandum describing a work plan to be carried out in light of the discussion at the TPRG meeting held on February 11. **The Confidential memo is available for pick-up in Room 501 of the Winder Building.** If you have any questions please call Gloria Blue (395-3475).

WESLEYAN UNIVERSITY

Department of Economics
238 Church Street
Middletown, CT 06459-0007
(860) 685-2340; FAX (860) 685-2781



FAX Transmittal Sheet

DATE: Feb 26, 1998

TO:

Adele Morris

FAX NUMBER: 202-395-6870

FROM: Gary Yohe (Fax 860 685 2781)

NUMBER OF PAGES INCLUDING THIS COVER SHEET: 10

MESSAGE:

In case my e-mail is lost, I would be honored
to be remembered. Thanks for thinking of me.

Withdrawal/Redaction Marker

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| DOCUMENT NO. AND TYPE | SUBJECT/TITLE | DATE | RESTRICTION |
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| 001. resume | Gary Yohe resume [PII] [partial] (1 page) | 00/00/0000 | b(6) |

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Clinton Presidential Records
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FOLDER TITLE:

IPCC [Intergovernmental Panel on Climate Change] - WGIII [Working Group III]
Nomination Process

2017-1095-F
bg230

RESTRICTION CODES

Presidential Records Act - [44 U.S.C. 2204(a)]

- P1 National Security Classified Information [(a)(1) of the PRA]
- P2 Relating to the appointment to Federal office [(a)(2) of the PRA]
- P3 Release would violate a Federal statute [(a)(3) of the PRA]
- P4 Release would disclose trade secrets or confidential commercial or financial information [(a)(4) of the PRA]
- P5 Release would disclose confidential advice between the President and his advisors, or between such advisors [(a)(5) of the PRA]
- P6 Release would constitute a clearly unwarranted invasion of personal privacy [(a)(6) of the PRA]

C. Closed in accordance with restrictions contained in donor's deed of gift.

PRM. Personal record misfile defined in accordance with 44 U.S.C. 2201(3).

RR. Document will be reviewed upon request.

Freedom of Information Act - [5 U.S.C. 552(b)]

- b(1) National security classified information [(b)(1) of the FOIA]
- b(2) Release would disclose internal personnel rules and practices of an agency [(b)(2) of the FOIA]
- b(3) Release would violate a Federal statute [(b)(3) of the FOIA]
- b(4) Release would disclose trade secrets or confidential or financial information [(b)(4) of the FOIA]
- b(6) Release would constitute a clearly unwarranted invasion of personal privacy [(b)(6) of the FOIA]
- b(7) Release would disclose information compiled for law enforcement purposes [(b)(7) of the FOIA]
- b(8) Release would disclose information concerning the regulation of financial institutions [(b)(8) of the FOIA]
- b(9) Release would disclose geological or geophysical information concerning wells [(b)(9) of the FOIA]

November 1997

RESUME

Gary Wynn Yohe
 84 High Street
 Portland, CT 06460
 Telephone: (860) 642-1834 Home
 (860) 685-3658 Office
 FAX: (860) 685-2731
 E-mail: GYOHE@WESLEYAN.EDU

Birth: (b)(6)
 Married to Linda Citrano Yohe; 2 children

Education

1970 B.A. University of Pennsylvania, Mathematics
 1971 M.A. State University of New York at Stony Brook, Mathematics
 1974 M.Phil. Yale University, Economics
 1975 Ph.D. Yale University, Economics

Dissertation Title

A Comparison of Price Controls and Quantity Controls Under Uncertainty

Fields of Research Concentration

Applied Microeconomic Theory, Environmental and Resource Economics, Pollution Control, Issues of Public Policy, Probabilistic Long Term Projection Analysis, Climate Change Decisions under Uncertainty and the Value of Information

Teaching Fields

Microeconomics, Environmental and Resource Economics, Decisions and Policy under Uncertainty and Risk

Fellowships and Awards

Phi Beta Kappa, University of Pennsylvania
 Yale University Fellowship
 Dissertation received an evaluation of "Distinction"
 Elected member of Connecticut Academy of Science and Engineering
 Elected member at-large of Sigma Xi

Experience

July 1985 - Present: Professor of Economics, Wesleyan
 June 1994 - Present: Director of Sponsored Research, Wesleyan
 July 1992 - June 1996: Director, John E. Andrus Center for Public Affairs
 Wesleyan University
 July 1978 - June 1985: Associate Professor of Economics, Wesleyan University
 July 1977 - July 1978: Assistant Professor of Economics, Wesleyan
 Aug. 1975 - Aug. 1977: Assistant Professor of Economics, SUNY
 Fall 1981 - Fall 1983: Visiting Associate Professor of Economics, Yale
 University
 Fall 1987, Fall 1989, Spring 1991 and Spring 1995: Visiting Professor of
 Economics, Yale University

PublicationsBooks and Monographs:

- 1) A Comparison of Price Controls and Quantity Controls Under Uncertainty, New York: Garland Publishing Co., Inc., 1979. (Published in a series of 24 Outstanding Dissertations in Economics)
- 2) Exercises and Applications for Microeconomic Analysis (1st, 2nd and 3rd Editions) New York, Norton and Company, 1983; 1986; 1993.
- 3) Study Guide to Economics (12th, 13th, and 14th Editions by Paul Samuelson and William Nordhaus), McGraw-Hill, 1985; 1989; and 1992.
- 4) Instructor's Manual to Economics (12th, 13th, and 14th Editions by Samuelson & Nordhaus), McGraw-Hill, 1985; 1989; and 1992.
- 5) Instructor's Manual to Macroeconomics (Hall and Taylor), Norton and Company, February 1986 and 1989.
- 6) An Economic Methodology for Evaluating the Timing and Relative Efficacy of Alternative Responses to Climate Change, Stockholm Environment Institute, November 1990.
- 7) Economic Data and the Human Dimensions of Global Environmental Change: Creating a Data Support Process for an Evolving Long Term Research Program (with Kathleen Segerson, University of Connecticut), Human Dimensions Program, International Social Science Council, UNESCO, Paris, France, December 1992.

Articles:

- 1) "Polluters' Profits and Political Response: Direct Controls versus Taxes--A Comment," American Economic Review, December 1976.
- 2) "Substitution and the Control of Pollution--A Comparison of Effluent Charges and Quantity Standards Under Uncertainty," Journal of Environmental Economics and Management, December 1976.
- 3) "Single-valued Control of an Intermediate Good Under Uncertainty--A Comparison of Prices and Quantities," International Economic Review, February 1977.
- 4) "Single-valued Control of a Cartel Under Uncertainty--A Multifirm Comparison of Prices and Quantities," Bell Journal of Economics, Spring 1977.
- 5) "Comparisons of Price and Quantity Control, A Survey," Journal of Comparative Economics, September 1977.
- 6) "The Complementarity of Public and Private Capital and the Optimal Rate of Return to Government Investment," with Seiritsu Ogura, Quarterly Journal of Economics, November 1977.
- 7) "Toward a General Comparison of Price Controls and Quantity Controls Under Uncertainty," Review of Economic Studies, June 1978.
- 8) "The Optimal Linear Alternative to Price and Quantity Controls," with Gordon Tapp, Journal of Comparative Economics, March 1979.

- 9) "Pollution Controls and the Distribution of Income to the Factors of Production: Some Comparative Statics in General Equilibrium," Journal of Environmental Economics and Management, September 1979.
- 10) "Distribution and the Structure of Incentives: A Comment" Journal of Comparative Economics, September 1979.
- 11) "Secondary Materials and International Trade--A Comment on the Domestic Market" Journal of Environmental Economics and Management, September 1979.
- 12) "Taxing Consumption to Finance Reduced Emissions: An Alternative Pollution Control" Economic Letters, 1979.
- 13) "Depreciation and the Conservation of Energy," Economic Letters, 1979.
- 14) "Current Publication Lags in Economics Journals," Journal of Economic Literature, September 1980.
- 15) "Managing a Sudden Supply Shortage--Some Policy Alternative When Information is Costly," Resources and Energy, March 1980.
- 16) "Should Sliding Controls be the Next Generation of Pollution Controls?" Journal of Public Economics, 1981.
- 17) "Regulation Under Uncertainty--An Intuitive Survey and Application to Fisheries" Journal of Marine Economics, September, 1984.
- 18) "Fines as Economic Incentives--An Alternative Variable Control," International Review of Law and Economics, June 1982.
- 19) "Markets and Regulation Under Uncertainty," Economic Letters, 9, 1982.
- 20) "Uncertainty and the Projection of Carbon Emissions," Alternative Energy Sources V, Elsevier Science Publishers, 1983 and 1989.
- 21) "Future Carbon Dioxide Emissions from Fossil Fuels," (with William Nordhaus) Changing Climate: Report of the Carbon Dioxide Assessment Committee, National Research Council, October 1983.
- 22) "Constant Elasticity of Substitution Production Functions with Three or More Inputs - An Approximation Procedure," Economic Letters, 15, 1984.
- 23) "Improving Tax Based Incomes Policies - Lessons for the Environmental Literature," Public Finance Quarterly, April, 1984.
- 24) "The Effects of Changes in Short Term Forecasts on Long Term Energy and Carbon Dioxide Projections," Resources and Energy, 6, 1984.
- 25) "Subjective Uncertainty and the Need for Consistency in Energy Forecasts," Energy Journal, May, 1984.
- 26) "Time, Space, Aggregation and Uncertainty: Sources of Disparity Among Forecasts" in Models in the Decision Making Process: Planning Under Uncertainty, (ed. A.S. Kydes), North Holland, 1985.
- 27) "Assessment of Greenhouse Futures and Risk" (with co-authors), World Meteorological Organization, Geneva, March 1986.
- 28) "Evaluating the Efficiency of Long Term Forecasts with Limited Information--Revisions in the IEW Poll Responses," Resources and Energy, 1986.

- 29) "Incorporating Current Prices Into Long-Term Energy Forecasts--A Maximum Likelihood, Adaptive Expectations Approach," Resources and Energy, 1987.
- 30) "Uncertainty and Disagreement Across the IEW Polls - Do the Ranges Match?" OPEC Review, Fall 1987.
- 31) "The Practical Advantages of Tax Over Regulatory Policies in the Control of Industrial Pollution" (with Paul MacAvoy) Economics Letters, February, 1988
- 32) "Probabilistic Projections of CFC Consumption" (with William Nordhaus), in Assessing the Risk of Trace Cases, U.S. EPA, March 1988.
- 33) "Regulating the Monopolistic Polluter" (with Paul Burrows), Souel Journal of Economics, January 1988.
- 34) "Criteria for Selecting a CO₂/Climate Change Region of Study" (with Joe Edmond, et al.), Proceedings of Air Pollution Control Association, July 1989
- 35) "Environmental Consequences" in New Energy Perspective, Electricite de France for the World Energy Conference, Montreal, September 1989.
- 36) "More on the Properties of a Tax Cum Subsidy Pollution Control Strategy," Economics Letters, June 1989.
- 37) "Consequences of Climate Change for the Human Environment" (with M. Scott, et al.), Chapter 5, National Energy Strategy. U.S. DOE, February 1990 and Climate Research, 1990.
- 38) "The Cost of Not Holding Back the Sea - Economic Vulnerability" in Potential Effects of Global Climate Change on the United States (ed., Smith & Tirpak) U.S. EPA Report to Congress, 1989 and Journal of Ocean and Shoreline Management, 1991.
- 39) "Towards an Analysis of Policy, Timing, and the Value of Information in the Face of Uncertain Sea Level Rise", Workshop Proceedings, Intergovernmental Panel on Climate Change - Response Strategies Working Group, December 1989.
- 40) "Uncertainty, Global Climate and the Economic Value of Information" prepared for presentation at the 1989 meetings of the American Economic Association and the 1990 meetings of the American Association for the Advancement of Service, Policy Sciences, 1991.
- 41) "The Cost of Not Holding Back the Sea - Towards a National Sample of Economic Vulnerability," Coastal Management, 1991.
- 42) "Imbedding Dynamic Responses with Imperfect Information into Static Portraits of the Regional Impact of Climate Change" in Global Change: Economic Issues in Agriculture, Forestry and Natural Resources, U.S. Department of Agriculture, 1991.
- 43) "Greenhouse Effect and Sea Level Rise: Potential Loss of Land and the Cost of Holding Back the Sea" (with J. Titus, et al.), Coastal Management, 1991.
- 44) "Towards a General Criterion for Selecting 'Interesting' Greenhouse Scenarios," Climate Research, 1991.
- 45) "Towards a General Methodology with Which to Evaluate the Social and Economic Impact of Global Change," (with Thomas Malone, N.C. State), Global Environmental Change, June 1992.

- 46) "Northwest Facts and Uncertainties in Economic Response to the Physical Effects of Global Climate Change", Proceedings of Conference on Assessing Climate Change for Risks, Resources for the Future (Washington, 1992).
- 47) "Carbon Emissions Taxes: Their Comparative Advantage under Uncertainty," Annual Review of Energy, 1992.
- 48) "Equity and Efficiency in the Clinton Energy Tax Proposal - Some Early Thoughts from First Principles", Energy Policy, August 1993.
- 49) "Missing Carbon and the Economically Efficient Response to the Threat of Global Warming" (with Cheng Ong), OPEC Review, 1994.
- 50) "Modeling the Economic Drivers of Greenhouse Gas Emissions" (with Rodney Wallace) Human Dimensions Quarterly, Winter 1994.
- 51) "Incorporating Uncertainty and Nonlinearity into the Calculus of an Efficient Response to the Threat of Global Warming" (with Brendan Garvey), International Journal of Global Energy Issues, 1995.
- 52) "Assessing the Economic Cost of Greenhouse Induced Sea Level Rise: Methods and Applications in Support of a National Survey" (with James Neumann and Holly Ameden), Journal of Environmental Economics and Management, November 1995.
- 53) "Vulnerability of Agricultural Crops to Climate Change: A Practical Method of Indexing" (with David Schimmelpfennig) in Global Environmental Change and Agriculture: Assessing the Impacts, Edward Elgar Publishing, 1997.
- 54) "IPCC Scenarios and the International Distribution of Income - Evidence from the Second Generation GCAM Model" (with Alexis Palmer), prepared for the IPCC Second Scientific Assessment (Chapter 3 of Working Group III) and included in Chapter 5 ("Economic Activity") of the Global Climate Change and the Social Sciences - An International Assessment, 1995.
- 55) "The Economic Cost of Greenhouse Induced Sea Level Rise in the United States" (with James Neumann, Patrick Marshall, and Holly Ameden), EPRI Research Report (comprehensive version) and Climatic Change, 1996.
- 56) "Near Term Mitigation Policy for Global Change Under Uncertainty - Minimizing the Expected Cost of Meeting Unknown Concentration Thresholds" (with Rodney Wallace), Energy Modeling Assessment, 1996.
- 57) "Planning for Sea-level Rise and Shore Protection under Climate Uncertainty" (with James Neumann for Resources for the Future), Climatic Change, 1997 and Climate Change and Water Resources Planning Criteria, K. Frederick, D. Major and E Stakhiv (eds.), Kluwer Academic Publishers, Dordrecht, 1997.
- 58) "Exercises in Hedging Against Extreme Consequences of Global Change and the Expected Value of Information" Global Environmental Change, 1996.
- 59) "Strategies for Using Integrated Assessment Models to Inform Near-Term Abatement Policies for Greenhouse Gas Emissions", proceedings of the NATO Advanced Research Workshop on Integrated Assessment of Global Environmental Change, 1996.
- 60) "First Principles and the Economic Comparison of Regulatory Alternatives in Global Change" in Cost-Benefit Analysis of Climate Change: The Broader Perspective (F.L. Toth, ed), Berhauser-Verlag, Basel, Switzerland (1998) and The OPEC Review, pp. 75-87, June 1997.
- 61) "Economic Activity" (with Robin Cantor) in Human Choice and Climate Change, Volume 2 (Chapter 1), Battelle Press, Washington, 1998.
- 62) "Using Integrated Assessment Models", Model Visualization and Assessment CIRES/NSF/DAC, <http://www.ciesin.org>, May 1996.

- 63) "Climate Change Policies, the Distribution of Income, and U.S. Living Standards". Climate Change Policy, Risk Prioritization and U.S. Economic Growth. American Council for Capital Formation Center for Policy Research, 1997.
- 64) "Assessing the Role of Adaptation in Evaluating Vulnerability to Climate Change". proceedings of the Workshop on Climate Change: Thresholds and Response Functions (Potsdam, Germany; January 1997), forthcoming 1998.
- 65) "The Economic Damage Induced by Sea Level Rise in the United States" (with James Neumann and Patrick Marshall), The EPRI Study of the Impacts of Climate Change (Chapter 7), Cambridge University Press, forthcoming, 1997.
- 66) "Uncertainty, Short Term Hedging and the Tolerable Windows Approach" presented at the Tokyo Modeling Forum on Integrated Global Environmental Assessment, March 14, 1997, Tokyo, Japan and Global Environmental Change, 1997.
- 67) "Fixing Global Carbon Emissions: Choosing the Best Target Year" (with Tricia Malinowski and Marielle Yohe), forthcoming in Energy Policy, 1998.
- 68) "Comprehending the Economic and Social Dimensions of Climate Change by Integrated Assessment" (with Hans Joachim Schellnhuber) presented at the Conference on the World Climate Research Programme, Geneva, August 27, 1997 and forthcoming in the Proceedings.
- 69) "Sea Level Change: The Expected Economic Cost of Protection or Abandonment in the United States (with Michael Schlesinger), Climatic Change, forthcoming, 1998.

Other Professional Activities:

- 1) Member of the Council of Editors, Journal of Environmental Economics and Management, (1987 - 1989).
- 2) Consultant to the Carbon Dioxide Assessment Committee of the National Research Council of the National Academy of Sciences (1982 - 1983).
- 3) Chairman, Governor's Commission on Connecticut's Future (1986 - 1988).
- 4) Invited participant at UNEP/WMO/ICSU Conference to Assess the Greenhouse Problem, Villach, Austria, October 1985.
- 5) Consultant to the U.S. EPA in preparation for an international convention and diplomatic agreement on chlorofluorocarbon regulation.
- 6) Guest Investigator, Woods Hole Oceanographic Institution (Marine Policy Center), September 1988 through June 1991.
- 7) Member Committee on the Preparation of Students from Selective Liberal Arts Programs for Graduate School in Economics (August 1989 -1994).
- 8) Member Visiting Committee on Economics, Haverford & Bryn Mawr Colleges, March 1990.
- 9) Member Connecticut Academy of Science and Engineering, elected 1990.
- 10) Participant, Energy Modeling Forum 12, Stanford University, 1990 - 1992 and Energy Modeling Forum 14, 1994 - present.
- 11) Rapporteur Task Group 12-Synthesis, Second World Climate Conference, Geneva Switzerland, November 1990.
- 12) Coordinator, International Workshop on the Natural Resource and Economic Implications of Global Climate Change, Interlaken, Switzerland, November 1990.

- 13) Invited participant, 18th and 19th General Assemblies of the International Social Science Council (ISSC), and corresponding Scientific Symposium on the Human Dimensions of Global Environmental Change, Palma, Spain (November, 1990) and Paris, France (December, 1992); also invited participant in and organizer of the 3rd Scientific Symposium on the Human Dimensions of Global Environmental Change, Geneva, Switzerland, September 1995.
- 14) Invited participant, UNEP Workshops on the Costs of Limiting Fossil Fuel Carbon Emissions--Informal Consultation for UNEP General Secretary, January 1991 and April/May, 1991.
- 15) Working Group Chair, Economic Data for Analyzing the Human Dimensions of Climate Change--An International Inventory and Evaluation, ISSC, 1991 - 1992.
- 16) Member, Advisory Board, Adaptation in Response to Global Climate Change, United States Congress Office of Technology Assessment (OTA), 1992 - 1993.
- 17) Member, NSF Review Panel (Global Change Program), 1992-1994 and 1996
- 18) Member, Steering Committee and Executive Committee for the Human Dimensions of Global Environmental Change Research, International Social Science Council, 1993 - 1994.
- 19) Member, Scientific Advisory Committee, Consortium for International Earth Science Information Network (CIESIN), 1993 - 1994.
- 20) Member, User Working Group, Consortium for International Earth Science Information Network (CIESIN), 1994 - present.
- 21) Member, Data Forum Steering Committee, National Research Council, National Academy of Science, June 1993 - October 1994.
- 22) Member, Exemplary Mechanisms of State Science-Based Policy Committee, Connecticut Academy of Science and Engineering for the Carnegie Commission, June 1993 - August 1994.
- 23) Principle Investigator, EPRI Damage Assessment Project, 1993 - 1996.
- 24) Member, Editorial Board, Human Dimensions Quarterly, 1993 - 1996.
- 25) Member, Editorial Board, American Economist, 1994 - present.
- 26) Working Group Chair, Energy Production and Consumption for the Human Dimensions Programme of the ISSC, 1993 - 1995.
- 27) Distinguished Environmental Policy Research Fellow, American Council for Capital Formation, Washington, DC, 1996-97.
- 28) Center Collaborator, Center for Integrated Study of the Human Dimensions of Global Change, Carnegie Mellon University, 1996-present.

Gary Yohe

Activities Since July 1, 1997

Note: Papers marked at the end of their listings by WS can be found at www.wesleyan.edu under the "Academics" icon, move to "Departmental Websites", then to "Economics Department", to "Faculty" and finally to "Gary Yohe"

Presentations and Publications in Proceedings:

"The Economics of Climate Change Policy: Bringing the Lessons of Integrated Assessment to Bear on Near-Term Decisions" at *Kyoto and Beyond: Climate Change Policy Moves to Center Stage* sponsored by the Center for Environmental Information on November 17, 1997 in Washington and *25 Years of Energy and Environmental Policy* at the 25th Annual Illinois Energy Conference on November 24, 1997 in Chicago, Illinois. WS

"Integrated Assessment of Climate Change: An Inverse Approach" at *Joint Symposium on Climate Impact Research: Why, How and When* sponsored by Berlin-Brandenburgische Akademie der Wissenschaften and Deutsche Akademie der Naturforscher Leopoldina on October 28/29, 1997 in Berlin, Germany.

"Comprehending the Economic and Social Dimensions of Climate Change by Integrated Assessment (with Hans Joachim Schellnhuber (PIK)) for the *Conference on the World Climate Research Programme: Achievements, Benefits and Challenges* on August 26/28, 1997 in Geneva, Switzerland. WS

Other Presentations:

"Integrated Study of Climate Change Impacts: Basic Strategies and an Example" (with Hadi Dowlatabadi and Granger Morgan) at the *Public Policy Seminar Series* at the Wharton School of the University of Pennsylvania on January 22, 1998.

Future Presentations and Participation:

"Risks and Uncertainties, Analysis and Evaluation: Lessons for Adaptation and Implementation" at the *Intergovernmental Panel on Climate Change Workshop on Adaptation to Climate Variability and Change* on March 29/April 1, 1998 in San Jose, Costa Rica.

"Adaptation and Tolerable Climate Change" (with Ferenc Toth) at the Spring 1998 Meeting of the American Geophysical Union special session on *Incorporating Human Dimensions into Earth System Models* on April 29, 1998 in Boston, Massachusetts.

Workshop on "Global Environmental Assessment and Public Policy" hosted by the Committee on the Environment of Harvard University in Bar Harbor, Maine on June 17/24, 1998.

Publications:

"Fixing Global Carbon Emissions: Choosing the Best Target Year" (with Tricia Malinowski and Marielle Yohe), *Energy Policy*, forthcoming, 1998.

"Sea Level Change: The Expected Economic Cost of Protection or Abandonment in the United States" (with Michael Schlesinger), *Climatic Change*, forthcoming, 1998.

"Vulnerability of Agricultural Crops to Climate Change: A Practical Method of Indexing Vulnerability" (with David Schimmelpfennig) in *Global Environmental Change and Agriculture: Assessing the Impacts*, Edward Elgar Publishing, forthcoming, 1998.

"Planning for Sea-Level Rise and Shore Protection under Climate Uncertainty" (with James Neumann for Resources for the Future), *Climatic Change*, 37: 243-270.

Other work or working papers in progress:

"The Hybrid Permit *cum* Price Ceiling Climate Policy Proposal: Intuition from the Prices vs. Quantities Literature". WS

"Estimating the Global Cost of Sea Level Rise - Methods and Models when (Reliable) Data are Scarce" (with James Neumann and Michelle Manion (Industrial Economics, Inc.)).

"Adaptation and the Guardrail Approach to Tolerable Climate Change Policy" with Ferenc Toth (from PIK). WS

Formative discussions on perceptions and institutions as impediments or catalysts for market-based adaptation to global change ongoing with Hadi Dowlatabadi, Granger Morgan, Jason West, and some contacts at the Wharton School; additionally, interaction (informal and through participation at workshops in January and June or 1998) with William Clark, David Cash and Suzanne Moser at the Kennedy School at Harvard.

Formative plans on employing the Charles River Associates model to explore the distributional effects of various mitigation policies in the United States; perhaps explore similar issues with ICAM.

RAYMOND PRINCE

CURRENT POSITION

Department of Energy 1994-

Economist
Office of Economic, Electricity and Natural Gas Analysis
Office of Energy, Office of Environmental Analysis and Sustainable Development

PREVIOUS POSITIONS

Council of Economic Advisers, Executive Office of the President 1995-97
Senior Economist

Congressional Budget Office 1991-94

Principal Analyst
Natural Resource Unit

University of Colorado-Boulder

Member of the Graduate Faculty 1987-91

Visiting Professor 1987-89

Natural Resource Law Center Fellow 1988-89

Research Associate, Institute of Behavioral Science

1987-89

Adjunct Professor, Department of Economics, University
of Colorado at Boulder 1989-91

Professional Staff, Program on Environment and Behavior,
Institute of Behavioral Science 1989-91

Economics Institute

Visiting Professor, The Economics Institute
1988-89

Deputy Director, Economics Institute, University of
Colorado at Boulder 1989-91

James Madison University

Asoc. Professor and Professor of Economics 1971-89

OTHER PROFESSIONAL EXPERIENCE

| | |
|---|---------|
| National Science Foundation Review Panel on Valuation for Environmental Policy | 1995 |
| Board of Directors, member, American Association of Environmental and Resource Economists | 1994-7 |
| Editorial Council, <u>Journal of Environmental Economics and Management</u> | 1994-7 |
| National Academy of Public Administration , Advisory Group on Deciding for the Future: Balancing Risks and Benefits Fairly Across Generations | 1994-5 |
| Chesapeake Bay Program , Economics Advisory Group to the Scientific and Technical Advisory Committee | 1993-6 |
| National Academy of Sciences and National Academy of Engineers , National Research Council Advisory Group on Valuing Natural Capital in Planning for Sustainable Development | 1992 |
| Scientific Advisory Board, member, Kluwer Academic Publishers | 1991- |
| Contributed Papers Selection Committee, American Association of Environmental and Resource Economists | |
| Member | 1988-90 |
| Chair | 1991-5 |
| United States Commission on Interagency Relations , Panel on Intergovernmental Decisionmaking for Environmental and Public Works | 1992 |
| United States Environmental Protection Agency , external reviewer various years | |
| National Science Foundation , external reviewer various years | |
| U.S. Department of Agriculture , Forest Service, George Washington National Forest, Economist (summers) | 1982-87 |
| External Reviewer for last three years | |
| <u>American Journal of Agricultural Economics</u> | |
| <u>Environmental and Resource Economics</u> | |
| <u>Journal of Economic Education</u> | |
| <u>Journal of Environmental Economics and Management</u> | |
| <u>Journal of Forestry</u> | |
| <u>Journal of Leisure Research</u> | |
| <u>Land Economics</u> | |
| <u>Natural Resource Journal</u> | |
| <u>Rand Journal</u> | |
| <u>Society and Natural Resources</u> | |

PUBLICATIONS (selected)

I. Articles, Comments

"The Challenge of Incorporating Environmental Quality and Natural Resource Availability into the National Accounts," Global and Planetary Change, forthcoming

"The Feasibility of Incorporating Environmental Quality and Natural Resource Availability Into the National Accounts" in National Academy of Sciences, Assigning Economic Value to Natural Resources (National Academy of Sciences, 1994)

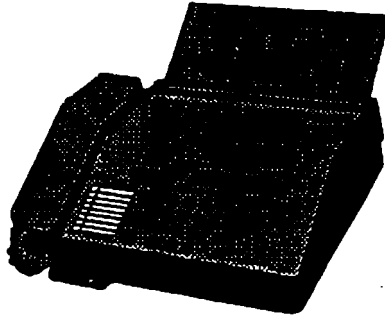
"Improving the Contingent Valuation Method: Implementing the Contribution Game Behavior," Journal of Environmental Economics and Management, Vol. 23, No. 1, 1992, 78-90 (co-authors: M. McKee, S. Ben-David and M. Bagnoli)

"Firm Incentives to Promote Technological Change in Pollution Control: Reply" Journal of Environmental Economics and Management, Vol. 22, No. 3, 1992, 292-296 (co-author: Scott Milliman).

"Firm Incentives to Promote Technological Change in Pollution Control," Journal of Environmental Economics and Management, Vol. 17, No. 3, 1989, pp. 247-265 (co-author: Scott Milliman).

"Individual Recreation Benefits Under Congestion and Uncertainty," Journal of Leisure Research, Vol. 21, No. 1, 1989, pp. 61-76 (co-author: Eshan Ahmed)

RESOURCE ECONOMICS DIVISION



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Per your request

NUMBER OF PAGES BEING SENT (INCLUDING COVER) _____

Curriculum Vitae
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Deputy Director for Research
Resource Economics Div.,
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Education: Ph.D. Economics, University of Pennsylvania, 1983; M.S. Economics University of Pennsylvania, 1979; B.S. Economics and Political Science, University of Wisconsin, 1976

Employment:

| | | |
|------------------------|--|--------------|
| Agricultural Economist | US Department of Agriculture, Economic Research Service, USDA | 1986-present |
|------------------------|--|--------------|

Currently, Deputy Director for Research. Previously, Deputy Director for Technology, Resources and Technology Div.; Chief, Land and Capital Assets Branch; Leader, Technology Research and Assessment and Land Values Sections.

| | | |
|---------------------------|---|-----------|
| Visiting Senior Scientist | Center for Energy and Environmental Policy Research, Massachusetts Institute of Technology | 8/92-8/93 |
| Economist | Pacific Northwest Laboratory, Battelle Memorial Institute | 2/85-9/86 |
| Economist | Institute for Energy Analysis, Oak Ridge Associated Universities | 1/80-2/85 |
| Economist | Office of the Secretary, US Department of Transportation | 5/79-9/79 |
| Economist | Energy Information Administration, US Department of Energy | 5/78-9/78 |

Professional Activities and Awards: Member, American Economic Association, American Agricultural Economics Association, and American Association for the Advancement of Science; Superior Service Award, United States Department of Agriculture, 1989; Excellence Award for Research, Economic Research Service, 1989; Administrators Award for Research, Economic Research Service, 1989.

Experience: Numerous published articles, books, book chapters, and technical reports in the areas of global climate change, energy, domestic and international agriculture, and environment and natural resources including model development using econometric, simulation, non-linear optimization, and dynamic control techniques. Specific topics include climate change effects on agriculture and resources, trace gas emissions and climate change, biotechnology and technology assessment, agricultural research, ethanol production, nuclear waste management issues, international energy demand (developed and developing countries), residential energy demand forecasts, and land value outlook and research.

Have served in a variety of capacities on national and international panels and committees including, National Academy of Science Panel on Integrated Environmental and Economics Accounting (ongoing), Vice Chair, National Assessment Working Group, National Academy of Public Administration (expert reviewer), Convening Lead Author of the Agricultural Impacts Chapter for Working Group II of the Intergovernmental Panel on

Climate (IPCC) in 1995, Chair of Federal task group on the Economics of Global Change in 1991-92, US representative to the Intergovernmental Panel on Climate Change (IPCC) in 1989, and as a member of the US delegation to the OECD agricultural research Director's meeting, Office of Technology Assessment Panels on Climate Change, EPA Science Advisory Board, DOE Program Review Committee, NOAA and NASA grants review, and NSF grants review and panels.

Articles

J. Reilly and D. Schimmelpfennig (forthcoming), "Agricultural Impact Assessment, Vulnerability, and the Scope for Adaptation," *Climatic Change*

J. Reilly and D. Schimmelpfennig (submitted), "Irreversibility, Uncertainty, and Learning: Portraits of Adaptation to Long-term Climate Change," *Climatic Change*

J. Reilly and K. Fuglie, (forthcoming), "Future Yield Growth in Field Crops: What Evidence Exists?" *Soil and Tillage Research Journal*.

J. Reilly, "Climate Change and Global Agriculture: Recent Findings and Issues." *American Journal of Agricultural Economics (Proceedings)*. 77: 1995.

J. Reilly, "Crops and Climate Change," *Nature (News and Views)*, vol. 367 (Jan. 13, 1994), pp. 118-119.

J. Reilly, N. Hohmann, and S. Kane, "*Climate Change and Agricultural Trade: Who Benefits, Who Loses?*" *Global Environmental Change*, vol. 4, No. 1 (1994), 24-36.

J. Reilly and K. Richards, "An Economic Interpretation of the Trace Gas Index Issue," *Environmental and Resource Economics*, vol. 3, pp. 41-61, 1993

Kane, S. and J. Reilly, "Response: An Empirical Study of the Economic Effects of Climate Change on World Agriculture." *Climatic Change*, 24: 277-280 (1993) .

J. Reilly and Neil Hohmann. "Climate Change and Agriculture: The Role of International Trade." *The American Economic Review: Proceedings*, May 1993.

Kane, S., J. Reilly, and J. Tobey. "An Empirical Study of the Economic Effects of Climate Change on World Agriculture." *Climatic Change*, 21(1992):17-35.

Tobey, James, John Reilly, and Sally Kane. "Economic Implications of Global Climate Change for World Agriculture." *Journal of Agricultural and Resource Economics*. 17, 1 (July 1992): 195-204.

Reilly, J. and R. Conway, "Technology Policy and Agriculture: Discussion," *American Journal of Agricultural Economics (Proceedings)*, August, 1991.

Reilly, J., "Climate Change, Resources, and American Agriculture: Discussion," *American Journal of Agricultural Economics (Proceedings)*, Dec., 1989.

Kane, S. and J. Reilly. "Competitiveness of the US. Fuel Ethanol Industry," *Energy*, Vol. 14, No. 5 (1989), pp. 259-275.

Kane, S., J. Reilly, M. LeBlanc, J. Hrubovcak. "Ethanol's Role: An Economic Assessment," *AgriBusiness*, Summer, 1989.

Reilly, J. and S. Shankle. "Auxiliary Heating in the Residential Sector," *Energy Economics*, January, 1988, pp.

29-42.

Reilly, J., J. Edmonds, R. Gardner, and A. Brenkert. "Monte Carlo Analysis of the IEA/ORAU Energy/Carbon Emissions Model," *The Energy Journal*, Vol. 8, No. 3 (July, 1987), pp. 1-29.

Reilly, J. and J. Edmonds. "Energy Forecasting and CO2 Emissions In Changing Climate: A Review," *The Energy Journal*, Vol. 6, No. 3 (July, 1985), pp. 137-154.

Edmonds, J. and J. Reilly. "Global Energy and CO2 to the Year 2050," *The Energy Journal*, Vol. 4, No. 3 (July, 1983), pp. 21-47.

Edmonds, J. and J. Reilly. "Global Energy Production and Use to the Year 2050," *Energy*, Vol. 8, No. 6 (June 1983), pp. 419-432.

Edmonds, J. and J. Reilly. "A Long-Term, Global, Energy-Economic Model of Carbon Dioxide Release From Fossil Fuel Use," *Energy Economics*, April 1983.

Books and Book Chapters:

J. Reilly, "Climate Change, Global Agriculture, and Regional Vulnerability," in *Global Climate Change and Agricultural Production*, [Fakhri Bazzaz and Wim Sombroek, eds.] John Wiley and Sons, Chichester, England, 1996, pp. 237-266.

J. Reilly, "Climate Change and Agriculture--Local, National, and Global Impacts," in ABARE 1997, *Outlook 97*, Proceedings of the National Agricultural and Resources Outlook Conference, Canberra, 4-6 February, vol. 1, *Commodity Markets and Resource Management*, ABARE, Canberra, 1997, pp. 49-63.

J. Reilly, "Climate Change, Global Agriculture, and Regional Vulnerability," in *Climate Change: Integrating Science, Economics, and Policy*, [N. Nakicenovic, W.D. Nordhaus, R. Richels, and F.L. Toth, eds.], CP-96-1, International Institute for Applied Systems Analysis, Laxenberg, Austria, Dec., 1996, pp. 47-82.

J. Reilly, "Global Warming May Not Cause Famine," in *Global Warming: Opposing Viewpoints* [Tamara Roleff, ed.], Greenhaven Press, Inc., San Diego, 1997, pp. 103-107 (reprinted from Nature).

Reilly, J. (Convening Lead Author), et al. "Agriculture in a Changing Climate: Impacts and Adaptations," in *Climate Change 1995: Impacts, Adaptations and Mitigation of Climate Change: Scientific-Technical Analyses*, [R.T. Watson, M.C. Zinyowera, and R.H. Moss, eds.], Cambridge University Press, Cambridge, 1996, pp.427-469

Contributing Author with others, *Climate Change 1995: Impacts, Adaptations, and Mitigation 1995, Summary for Policymakers*, Intergovernmental Panel on Climate Change, UNEP/WMO, Geneva, 1996.

Contributor with others, "Introduction: Scope of the Assessment," in *Climate Change 1995: Economic and Social Dimensions of Climate Change*, [James P. Bruce, Hoesung Lee, and Erik Haites, ed.s] Cambridge University Press, 1996, pp. 21-51.

Reilly, John, Neil Hohmann, and Sally Kane, "Climate Change and Agricultural Trade: Who Benefits, Who Loses," in *Climate Change and World Food Security* [Tom Downing, ed.], NATO ASI Series, Vol. I 37, Springer Verlag, Berlin, 1996, pp 161-180. (reprinted from Global Environmental Change).

Reilly, J. Climate Change and Agriculture--Research Findings and Policy Considerations. In: *Population and Food in the Early 21st Century: Meeting Future Food Demand of an Increasing World Population* [N. Islam (ed.)]. Occasional Paper, Washington, D.C., International Food Policy Reserach Institute (IFPRI), pp. 229-239.

Reilly, J. and M. Anderson (eds.). *Global Change: Economic Issues in Agriculture, Forestry, and Natural Resources*, Westview Press, Boulder, CO; 1992: 460pp.

J. Reilly, "Economic Modeling of Global Climate: Comparing Approaches," in James C. White (ed.) *Global Climate Change: The Cost of Mitigation and Adaptation*, Elsevier, New York, NY; 1991: 315-26.

Reilly, J. "Climate Change Damage and the Trace Gas Index Issue," in Reilly, J. and M. Anderson (eds.). *Global Change: Economic Issues in Agriculture, Forestry, and Natural Resources*, Westview Press, Boulder, CO; 1992: 72-90.

Kane, S. J. Tobey and J. Reilly. "The Economic Effects of Climate Change on Agriculture," in Reilly, J. and M. Anderson (eds.). *Global Change: Economic Issues in Agriculture, Forestry, and Natural Resources*, Westview Press, Boulder, CO; 1992: 117-31.

Reilly, J. "Carbon Dioxide Emissions and Global Environmental Change," in G. I. Pearman (ed.), *Limiting the Greenhouse Effect: Controlling Atmospheric CO2 Accumulation*, London: John Wiley & Sons Ltd. 1992: 111-34.

Associate Author, "Agriculture and Forestry," in Tegarrt, W.J. McG., G.W. Sheldon and D.C. Griffiths (eds.) *Climate Change: The IPCC Impacts Assessment*, UN. Intergovernmental Panel on Climate Change, Australian Government Printing Office, Canberra, 1990.

LeBlanc, M. and J. Reilly. "Energy Policy Analysis: Alternative Modeling Approaches," in David Freshwater and George Johnson (eds.). *Case Studies in Resource Economics*, Westview Press, Boulder, 1988.

Reilly, J. and T. Phipps. "Technology, Natural Resources, and Commodity Trade," in John D. Sutton (ed.) *Agricultural Trade and Natural Resources: Discovering Critical Linkages*, Lynne Rienner Publishers, Boulder, 1988, pp. 224-35.

Edmonds, J. and J. Reilly. *Global Energy: Assessing the Future*, Oxford University Press, 1985: 317 pp.

Edmonds, J. and J. Reilly. "Future Global Energy and Carbon Dioxide Emissions," in J. Trabalka (ed.), *Atmospheric Carbon and the Global Carbon Cycle*, US. Department of Energy, December, 1985, pp. 215-46.

Trabalka, J., J. Edmonds, J. Reilly, R. Gardner, and L. Voorhees. "Human Alterations of the Global Carbon Cycle and the Projected Future," in J. Trabalka (ed.), *Atmospheric Carbon and the Global Carbon Cycle*, US. Department of Energy, December, 1985, pp. 247-87.

Reilly, J. and J. Edmonds, "Global Energy and Carbon Dioxide," in *Energy Markets in the Longer Term: Proceedings of the 2nd International Symposium on Energy Modeling*, North Holland Publishing Company, New York, 1985.

Edmonds, J. and J. Reilly. "Time and Uncertainty: Analytic Paradigms and Policy Requirements," in *Energy and Time in the Economic and Physical Sciences*, North-Holland, 1985, pp. 287-313.

Trabalka, J., J. Edmonds, J. Reilly, R. Gardner, and D. Reichle. "Atmospheric CO2 Projections with Averaged Carbon Cycle Models," in J. Trabalka and D. Reichle (eds.), *Global Carbon Cycle: Analysis of the Natural Cycle and Implications of Anthropogenic Alterations for the Next Century*, Springer-Verlag, New York, 1985, pp. 534-560.

"The Supply of Energy and US. Labor Productivity to 1990," in *Productivity in the American Economy, 1982*, Hearings before the Subcommittee on Employment and Productivity of the Committee on Labor and Human Resources, United States Senate, 97th Congress. US. Government Printing Office, Washington, 1982.

Technical Reports:

Schimmelpfennig, D., J. Lewandrowski, J. Reilly, M. Tsigas, and I. Parry. "Agricultural Adaptation to Climate Change: Issues of Longrun Sustainability," Agricultural Economics Report No. 740, Economic Research Service, USDA, Washington D.C., June 1996.

Fuglie, K., N. Ballenger, K. Day, C. Klotz, M. Ollinger, J. Reilly, U. Vasavada, J. Yee. "Agricultural Research and Development: Public and Private Investments Under Alternative Markets and Institutions," Agricultural Economic Report No. 735, Economic Research Service, USDA, Washington D.C., May 1996.

Fuglie, K., N. Ballenger, K. Day, C. Klotz, J. Reilly, J. Yee. "The Value and Role of Public Investment in Agricultural Research," Staff Paper No. AGES-9510, Economic Research Service, USDA, 1995

Reilly, J., N. Hohmann, and S. Kane, "Climate Change and Agriculture: Global and Regional Effects Using an Economic Model of International Trade," MIT-CEEPR 93-012WP, Center for Energy and Environmental Policy Research, MIT, August 1993.

Reilly, J. and Chris Thomas, "Toward Economic Evaluation of Climate Change Impacts: A Review and Evaluation of Studies of the Impact of Climate Change," MIT-CEEPR 93-009WP, Center for Energy and Environmental Policy Research, MIT, June 1993.

Barns, D.W., J.A. Edmonds, and J.M. Reilly, "Use of the Edmonds-Reilly Model to Model Energy-Related Greenhouse Gas Emissions," OECD Economics Department Working Papers, No. 113, 1992.

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 1997- Adjunct Professor of Economics, University of Rhode Island

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Robert_Stavins/FS/KSG @ ksg.harvard.edu
01/22/98 10:55:00 AM

Record Type: Record

To: Adele C. Morris

cc:

Subject: IPCC process and CEA

Adele,

I sent in the nomination form myself, but -- if the process is similar to the last time -- it will be helpful if nominations come in from additional sources. Hence, here's the information you'll need to complete the form:

a. My title is "Professor of Public Policy, and Faculty Chair, Environment and Natural Resources Program, John F. Kennedy School of Government, Harvard University."

b. My address, phone, fax, and e-mail addresses are given below in the "signature line."

c. As for expertise, I suppose it's "environmental economics; policy instruments; technological change in energy-efficiency; costs of (biological) carbon sequestration"

d. Role should be "lead author."

e. As for "appropriate subject areas," nothing under Working Group I or II; Under Working Group III, my primary expertise would be for the six categories, and my secondary expertise would be for the last four categories" (or use your judgement, please).

f. Here are my bio and c.v., in case you need them (in WordPerfect 6.1):

(See attached file: Bio)(See attached file: Cv)

Rob

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ROBERT N. STAVINS

Robert N. Stavins is Professor of Public Policy, and Faculty Chair of the Environment and Natural Resources Program at the John F. Kennedy School of Government, Harvard University. He is a University Fellow of Resources for the Future, the Chairman of the Environmental Economics Advisory Committee of the U.S. Environmental Protection Agency's (EPA) Science Advisory Board, and a Member of: EPA's Clean Air Act Advisory Committee, the Intergovernmental Panel on Climate Change (IPCC), the Board of Directors of the Association of Environmental and Resource Economists, the Board of Directors of the Robert and Renée Belfer Center for Science and International Affairs, the Editorial Council of *The Journal of Environmental Economics and Management*, the Advisory Board of *Environmental Economics Abstracts*, and the Editorial Board of *Economic Issues*. He is also a contributing editor of *Environment*, and the Academic Advisor for Environmental Programs of the Foundation for American Communications. He holds a B.A. in philosophy from Northwestern University, an M.S. in agricultural economics from Cornell, and a Ph.D. in economics from Harvard.

Professor Stavins' research has focused on diverse areas of environmental economics and policy, including examinations of: policy instrument choice under uncertainty; competitiveness effects of regulation; design and implementation of market-based policy instruments; diffusion of pollution-control technologies; and depletion of forested wetlands. His current research includes analyses of: technology innovation; environmental benefit valuation; political economy of policy instrument choice; and econometric estimation of carbon sequestration costs. His research has appeared in the *American Economic Review*, *Journal of Economic Literature*, *Journal of Environmental Economics and Management*, *Ecology Law Quarterly*, *Journal of Risk and Uncertainty*, *Resource and Energy Economics*, *The Energy Journal*, *Energy Policy*, *Annual Review of Energy and the Environment*, *Explorations in Economic History*, *Brookings Papers on Economic Activity*, other scholarly and popular periodicals, and several books.

Professor Stavins directed Project 88, a bi-partisan effort co-chaired by former Senator Timothy Wirth and the late Senator John Heinz, to develop innovative approaches to environmental and resource problems. He continues to work closely with public officials on matters of national and international environmental policy. He has been a consultant to the National Academy of Sciences, several Administrations, Members of Congress, environmental advocacy groups, the World Bank, the United Nations, the U.S. Agency for International Development, state and national governments, and private foundations and firms.

Prior to coming to Harvard, Stavins was a staff economist at the Environmental Defense Fund; and before that, he managed irrigation development in the middle east, and spent four years working in agricultural extension in West Africa as a Peace Corps volunteer.

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Academic Journals

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"Forecasting the Size Distribution of Farms: A Methodological Analysis of the Dairy Industry in New York State." M.S. thesis, Cornell University, Ithaca, New York, May 1979.

SELECTED PRESENTATIONS

Presentations at universities, research institutes, Federal and state government agencies, Congressional committees, foreign governments, international organizations, foundations, non-profit groups, corporations, and trade associations, including the following (partial list): American Council on Capital Formation, American Economic Association, American Enterprise Institute, American Paper Institute, American Petroleum Institute, Analysis Group, Association for Public Policy Analysis and Management, Brookings Institution, Canadian Cabinet, Carnegie-Mellon University, CF Industries, Chevron Corporation, Coolidge Center for Environmental Leadership, Cornell University, Democratic Leadership Council, Eisenhower Exchange Fellowships, Environmental Law Institute, Environmental Defense Fund, Environmental and Energy Study Institute, Executive Office of the President, Ford Foundation, Foundation for American Communications, Georgia Conservancy, Harvard School of Public Health, Harvard College, Harvard Committee on University Resources, Harvard Institute for International Development, Harvard Law School, Harvard-Japan Energy and Environment Workshop, Harvard-Repsol Conference, Heinz Family Endowments, Intergovernmental Panel on Climate Change, International Public Economics Congress, John F. Kennedy School of Government, Jones, Day, Reavis & Pogue, Lincoln Institute of Land Policy, Massachusetts Institute of Technology, McKinsey & Company, McKinsey Global Institute, Mexican Cabinet, Missouri Department of Natural Resources, Morgan Stanley & Company, National Bureau of Economic Research, National Recycling Congress, Northwestern University, Pew Charitable Trusts, Polish Ministry of Environment, Political Economy Research Center, President's Council of Economic Advisers, Princeton University, Progressive Policy Institute, Rand Corporation, Reason Foundation, Resources for the Future, Rockefeller Foundation, Royal Institute for International Affairs, Scripps Institution of Oceanography, Smithsonian Institution, St. Lawrence University, Stanford University, U.S. House of Representatives, U.S. Environmental Protection Agency, U.S. Department of Energy, U.S. Department of the Interior, U.S. Department of State, U.S. Office of Management and Budget, U.S. Senate, U.S. Army Corps of Engineers, University of California (Berkeley, Los Angeles, and Santa Barbara), University of Maryland, University of Michigan, University of Texas, University of Toronto, Vermont Agency of Natural Resources, Vermont Law School, W. Alton Jones Foundation, the White House, the World Bank, the World Economic Forum (Davos), and Yale University.

PROFESSIONAL EXPERIENCE:

Professor of Public Policy, John F. Kennedy School of Government, Harvard University, 1997-present (Associate Professor, 1992-1997; Assistant Professor, 1988 - 1992).

Faculty Chair, Environment and Natural Resources Program, John F. Kennedy School of Government, Harvard University, 1997-present.

University Fellow, Resources for the Future, Washington, D.C., 1989 - present.

Chairman, Science Advisory Board Environmental Economics Advisory Committee, U.S. Environmental Protection Agency, Washington, D.C., 1997-present (Member, 1992 - 1997).

Member, Board of Directors, Association of Environmental and Resource Economists, January 1996 - December 1998.

Member, Board of Directors, Robert and Renée Belfer Center for Science and International Affairs, John F. Kennedy School of Government, Harvard University

Member, Editorial Council, *The Journal of Environmental Economics and Management*, 1996 - present.

Contributing Editor, *Environment*, 1997 - present.

Member, Advisory Board, *Environmental Economics Abstracts*, 1996 - present.

Member, Editorial Board, *Economic Issues*, 1996 - present.

Member, Advisory Board, *Environmental Law and Policy Abstracts*, 1996 - present.

Member, Subcommittee on Energy, Clean Air, and Climate Change, Clean Air Act Advisory Committee, U.S. Environmental Protection Agency, 1997 - present.

Lead Author, Working Group III, Intergovernmental Panel on Climate Change (IPCC), United Nations Environment Program and World Meteorological Organization, 1993 - present.

Member, Reducing Risk Project Steering Committee, Science Advisory Board, U.S. Environmental Protection Agency, 1996 - present.

Member, External Review Panel, Department of Agricultural and Resource Economics, University of California, Berkeley, October 1995.

Member, Workshop Committee, Association of Environmental and Resource Economists (AERE) 1996-1999 (chair in third year of appointment).

Member, Eco-Efficiency Task Force, President's Council on Sustainable Development, 1994 - 1995.

Member, Energy Modeling Forum Working Group on Energy Conservation (EMF 13), Stanford University, 1992 - 1994.

Member, University Committee on Environmental Studies, Harvard University, 1992 - present; Member, University Working Group on Environment, Harvard University, 1990 - 1992.

Member, Advisory Panel on Emissions Trading, Sierra Club, Washington, D.C., 1994 - 1995.

Affiliated Faculty Member, Harvard Center for Risk Analysis, Harvard School of Public Health, Boston, Massachusetts, 1991 - present.

Academic Advisor for Environmental Journalism Program, Foundation for American Communications, 1992 - present (Lecturer, 1989 - present).

Director, Project 88 and Project 88/Round II, co-sponsored by U.S. Senators Timothy Wirth (D-Colorado) and John Heinz (R-Pennsylvania), 1988 - 1992.

Principal, Harvard-Japan Project on Energy and the Environment, 1992 - 1995.

Member, Governor's Task Force on Energy and Environmental Policy, Massachusetts, 1992 - 1994.

Consultant to foundations, private industry, non-governmental organizations, state & local governments, Federal government departments and agencies, and international bodies on environmental economics.

Referee, *The American Economic Review*, *The Quarterly Journal of Economics*, *The Economic Journal*, *The RAND Journal of Economics*, *The Review of Economics and Statistics*, *The Journal of Environmental Economics and Management*, *Land Economics*, *The Energy Journal*, *Energy and Resource Economics*, *Energy Policy*, *The Journal of Policy Analysis and Management*, *Economic Inquiry*, *Science*, *Policy Studies Journal*, *The Journal of the Air and Waste Management Association*, and Harvard University Press.

Member, Risk Reduction Committee, Science Advisory Board, U.S. Environmental Protection Agency, Washington, D.C., 1989 - 1990.

Member, Working Group on Human Interactions with Global Change, National Research Council, Washington, D.C., 1989 - 1990.

Staff Economist, Environmental Defense Fund, Berkeley, California, 1982 - 1983.

Consultant, Public Interest Economics Foundation, Inc., Berkeley, California, September 1980 - June 1982.

Economist, Giannini Foundation of Agricultural Economics, University of California, Berkeley, 1979 - 1981.

Research Specialist, Department of Agricultural Economics, Cornell University, 1977 - 1979.

Agricultural Representative, Peace Corps Recruitment, Champaign, Illinois, September 1975 - August 1976.

Peace Corps Volunteer, Ministry of Agriculture and Natural Resources, Sierra Leone, West Africa, 1969 - 1973.

AWARDS, HONORS, AND GRANTS:

Principal Investigator, grant from the U.S. Department of Energy, "Energy-Efficiency Innovation and the Economic and Regulatory Environment," September 1995 - November 1998 (\$461,000)

Principal Investigator, grant from the U.S. Environmental Protection Agency, "Estimating a CO₂ Sequestration Supply Function," June 1993 - August 1994 (\$130,000).

Principal Investigator, grant from the W. Alton Jones Foundation, "Environmental Policy Reform in the First 100 Days of the New Administration," February 1993 - May 1993 (\$40,000).

Principal Investigator, grant from the Office of Research and Development, U.S. Environmental Protection Agency, "Evaluating the Relative Effectiveness of Economic Incentives and Direct Regulation for Environmental Protection: Impacts on the Diffusion of Technology," September 1991 - August 1993 (\$186,000).

Principal Investigator, grant from the W. Alton Jones Foundation, "Project 88 -- Round II, Incentives for Action: Implementing Market-Based Environmental Policies," November 1990 - August 1992 (\$75,000).

Principal Investigator, grant from the Pew Charitable Trusts, "Project 88 -- Round II, Incentives for Action: Implementing Market-Based Environmental Policies," January 1991 - August 1992 (\$75,000).

Principal Investigator, grant from the Surdna Foundation, "Project 88 -- Round II, Incentives for Action: Implementing Market-Based Environmental Policies," March 1991 - August 1992 (\$50,000).

Principal Investigator, grant from the U.S. Environmental Protection Agency, "Project 88 -- Round II, Incentives for Action: Implementing Market-Based Environmental Policies," March 1991 - August 1992 (\$50,000).

Principal Investigator, grant from Carnegie Corporation of New York, "Economic Incentives for Environmental Protection: A Public Policy Sequel to Project 88," June 1990 - September 1991 (\$97,600).

Principal Investigator, grant from Resources for the Future, "Wetland Losses and Willingness-to-Pay for Fishing Opportunities," 1990-1991 (\$20,905).

Project Director, grant from the Richard King Mellon Foundation, Pittsburgh, Pennsylvania, "Harvard-Project 88 Conference," 1989 (\$35,000).

Project Director, grants from the Carnegie Corporation of New York, the Richard King Mellon Foundation, the Rockefeller Family and Associates, and the Keystone Center/Madison Associates, "Project 88 - Harnessing Market Forces to Protect the Environment: Initiatives for the New President," 1988-89 (\$50,000).

AWARDS, HONORS, AND GRANTS (continued)

Principal Investigator, grant from the Fish and Wildlife Service, U.S. Department of the Interior, Washington, D.C., "Welfare Analysis of Alternative Uses of Forested Wetlands," 1987-88 (\$10,000).

Research Grant from the National Center for Food and Agricultural Policy, Resources for the Future, Washington, D.C., 1986-87 (\$15,000).

Mentorship Grant in Humanities and Social Sciences, Harvard University, Cambridge, Massachusetts, Fall 1986. With H. S. Houthakker (\$10,000).

Dissertation Research Grant from the National Center for Food and Agricultural Policy, Resources for the Future, Washington, D.C., 1985-86 (\$15,000).

Principal Investigator, grant from U.S. Department of the Interior, Washington, D.C., "Impact of Federal Programs on Wetlands," 1985-86 (\$100,000).

Outstanding Master's Thesis - 1979. National competition of the American Agricultural Economics Association, Champaign, Illinois, July 18, 1980.

ADAM B. JAFFE

Adam B. Jaffe is Associate Professor of Economics at Brandeis University, and Coordinator of the Project on Industrial Technology and Productivity of the National Bureau of Economic Research (NBER). He is also principal investigator for a National Science Foundation research project, funded through the NBER, to compile a comprehensive database on patents and patent citations and use these data to document the flows of technological knowledge across time, industries and geographic areas.

Professor Jaffe's areas of specialization are the economics of technological change, and the economics of regulated industries. Recent publications include "Environmental Regulation and Innovation: A Panel Data Study (with K. Palmer), *Review of Economics and Statistics* (1997); "Bounding the Effects of R&D: an Investigation Using Matched Establishment-Firm Data" (with J. Adams), *Rand Journal of Economics* (1996); "Dynamic Incentives of Environmental Regulations: The Effects of Alternative Policy Instruments on Technology Diffusion" (with R. Stavins), *Journal of Environmental Economics and Management* (1995); "Environmental Regulation and the Competitiveness of U.S. Manufacturing: What Does the Evidence Tell Us?" (with S. Peterson, P. Portney and R. Stavins), *The Journal of Economic Literature* (1995); "Geographic Localization of Knowledge Spillovers as Evidenced by Patent Citations" (with M. Trajtenberg and R. Henderson), *Quarterly Journal of Economics* (1993); and "How High are the Giants' Shoulders: An Empirical Assessment of Knowledge Spillovers and Creative Destruction in a Model of Economic Growth" (with R. Caballero), *National Bureau of Economic Research Macroeconomics Annual*, Vol. 8 (1993).

Previously, Jaffe was Assistant and then Associate Professor of Economics at Harvard University. During 1992-94 he visited the John F. Kennedy School of Government at Harvard. During academic year 1990-91, Prof. Jaffe took leave from Harvard to serve as Senior Staff Economist at the President's Council of Economic Advisers in Washington, DC., where he had primary staff responsibility for energy policy, technology policy, and regulatory policy. Professor Jaffe received his S.B. in Chemistry (1976) and his S.M. in Technology and Policy (1978) from M.I.T., and his Ph.D. in Economics from Harvard University (1985).

Jaffe is a member of the Board of Editors of the *American Economic Review* and an Associate Editor of the *Journal of Industrial Economics*; Co-organizer of the NBER Science and Technology Policy Research Workshop; and a member of the Economics Roundtable, The Advanced Technology Program, National Institute of Standards and Technology, U.S. Department of Commerce.

SUGGESTIONS OF EXPERTS TO PARTICIPATE IN THE THIRD ASSESSMENT REPORT OF THE IPCC

Please submit one form for each nominee along with curriculum vitae and/or one page biographical sketch. Note that this form consists of two pages.

Full Name: John P. Weyant
 Title: Professor
 Affiliation: Stanford University
 Full Address: Dept. Eng. Econ. Systems
Stanford University
Stanford, CA 94305-1050
 Tel: (650) 723-3506
 Fax: (650) 723-4107
 Email: weyant@lelanl.stanford.edu
 Expertise: Economics / Integrated Assessment
 Nominated by: CEA

What role would you recommend that this expert play in the preparation of the Third Assessment Report? (Please try to select one only, recognizing that this may differ by chapter).

- Lead Author (coordination and integration of scientific/technical information)
- Contributing Author (support lead author in preparation of specific text/data)
- Review Editor (ensure scientific/technical validity and balance)
- Resource Person (address technical questions, participate in expert review, attend expert meetings, etc.)

Has this person been contacted and given concurrence to be nominated?

- Yes
- No

Please include a curriculum vitae and/or one page biographical sketch and submit by February 9, 1998 to:

Melissa J. Taylor, USGCRP Office
 400 Virginia Avenue, SW, Suite 750
 Washington, DC 20024
 tel: 202 314 2239/fax: 202 488 8681
 email: mtaylor@usgcrp.gov

For each nominee, please also submit Page 2 which covers subject area.

| | | | | | |
|-------------------|------------------|---------|----------------|------------|---|
| Post-it* Fax Note | 7671 | Date | 2/4/98 | # of pages | 2 |
| To | ADELE MORRIS | From | John Weyant | | |
| Co./Dept. | Council of Econ. | Co. | STANFORD UNIV. | | |
| Phone # | 202 395-5012 | Phone # | 650-723-0645 | | |
| Fax # | 202-395-6870 | Fax # | 650-723-4107 | | |

Name of Expert: John P. Weyant Page 2-

Please indicate the most appropriate subject area(s); if you are designating more than one, please rank with 1's indicating highest relevance/priority and 2's indicating secondary relevance/priority.

| Working Group I: Climate System | |
|--|--|
| <input type="checkbox"/> | The Climate System: An Overview |
| <input type="checkbox"/> | Radiative Forcing of Climate Change |
| <input type="checkbox"/> | Observed Climate Variability and Change |
| <input type="checkbox"/> | Physical Climate Processes and Feedbacks |
| <input type="checkbox"/> | Biological Climate Processes and Feedbacks |
| <input type="checkbox"/> | Climate Models: Evaluation |
| <input type="checkbox"/> | Global Climate Models: Projections of Future Change |
| <input type="checkbox"/> | Regional Information: Models and Projections |
| <input type="checkbox"/> | Changes in Sea Level |
| <input type="checkbox"/> | Detection of Climate Change and Attribution of Causes |
| <input type="checkbox"/> | Advancing our Understanding |
| Working Group II: Impacts and Adaptation | |
| <input type="checkbox"/> | Forests and Forestry |
| <input type="checkbox"/> | Agriculture and Food Security |
| <input type="checkbox"/> | Rangelands |
| <input type="checkbox"/> | Deserts |
| <input type="checkbox"/> | Soils and Land Degradation |
| <input type="checkbox"/> | Mountain Regions |
| <input type="checkbox"/> | Cryosphere |
| <input type="checkbox"/> | Hydrology and Water Resources Management |
| <input type="checkbox"/> | Freshwater, Wetland, Coastal and Marine Ecosystems (including Fisheries) |
| <input type="checkbox"/> | Infrastructure in Coastal Zones and on Small Islands |
| <input type="checkbox"/> | Human Settlement Patterns and Conditions |
| <input type="checkbox"/> | Energy, Industry, and Transportation |
| <input type="checkbox"/> | Financial Services (including Insurance) |
| <input type="checkbox"/> | Human Health |
| <input checked="" type="checkbox"/> | Integrated Assessment |
| Working Group III: Mitigation Options | |
| <input type="checkbox"/> | Potential of technologies and practices to reduce greenhouse gases from energy supply and demand, industrial and transportation sources, waste disposal, agriculture and forestry, etc. |
| <input type="checkbox"/> | Potential of technologies and practices to enhance the removal of greenhouse gases, including both biological sinks and technologies to capture and store carbon and technologies. |
| <input type="checkbox"/> | Barriers to effective use, diffusion, and transfer of these technologies and practices. |
| <input type="checkbox"/> | Policies and policy instruments to harness the potential of technologies and practices and to overcome barriers, including incentives for the penetration of new technologies, national and regional information centres, public and private sector R&D programs, fiscal instruments (taxes, subsidy elimination, internalization of externalities, negotiated agreements, joint implementation, emissions trading and regulation) |
| <input type="checkbox"/> | Global assessment of the mitigation potential of these technologies, practices and policies. |
| <input type="checkbox"/> | Regional assessment of the mitigation potential of these technologies, practices and policies for all sectors and for sources and sinks, including their local and regional dimensions. |
| <input checked="" type="checkbox"/> | Assessment of emission scenarios to achieve stabilization of atmospheric concentrations of greenhouse gases and of the relevant policy mix underlying these scenarios. |
| <input checked="" type="checkbox"/> | Costs and benefits of achieving different emission profiles and different stabilization levels and costs and benefits of achieving different emission limitation and reduction profiles at a regional level, including cross-sectoral assessment of the use of discount rates. |
| <input checked="" type="checkbox"/> | Assessment of the social, economic and environmental impacts of mitigation actions on all countries, including impact on trade relations. |
| <input checked="" type="checkbox"/> | Assessment of decision-making frameworks involving both adaptation and mitigation approaches, equity and sustainable development considerations, integrated environmental assessment tools and other relevant aspects, including synergy with other regimes. |

CURRICULUM VITAE
(Short Version)

John P. Weyant

PROFESSIONAL INTERESTS

Application of quantitative methods to strategic planning in business and government.

ACADEMIC APPOINTMENTS

STANFORD UNIVERSITY

Professor - Department of Engineering-Economic Systems (9/89-present)
Associate Professor - Department of Engineering-Economic Systems (9/84-9/89)
Senior Research Associate - Department of Operations Research (9/80-8/84)
Research Associate - Department of Operations Research (6/77-8/80)

EDUCATION

HARVARD UNIVERSITY: Postdoctoral Fellow - John F. Kennedy School of Government
(1976)

UNIVERSITY OF CALIFORNIA, BERKELEY: Ph.D. - Management Science (Economics)
(1976)

RENSSELAER POLYTECHNIC INSTITUTE: M. S. Operations Research and Statistics
(1971)

M.S. Management (1970)

B.S. Aero. Engineering and Astronautics (1969)

RESEARCH EXPERIENCE

STANFORD UNIVERSITY

ENERGY MODELING FORUM: The EMF conducts systematic comparative studies of
energy-environment-economic models applied to policy problems of current
interest.

Director (9/84-present); Executive Director (1/83 - 8/84);

HARVARD UNIVERSITY-ENERGY AND ENVIRONMENTAL POLICY CENTER (4/76 - 5/77):

RAND CORPORATION (6/70-3/76; Summers plus Consulting)

U.C. BERKELEY-ENERGY & RESOURCES PROGRAM (11/74 -6/75)

OPERATIONS RESEARCH CENTER (10/72 - 12/73)

RENSSELAER POLYTECHNIC INSTITUTE-

URBAN & ENVIRONMENTAL STUDIES PROGRAM (1/71 - 9/71):

CONSULTING AND ADVISORY BOARDS

Rand Corporation

Electric Power Research Institute (Advisory Board on Visibility Valuation Project)

N.R.C. Committee on Nuclear and Alternative Energy Systems

U. S. Department of Energy

Pan Heuristics

U. S. Arms Control and Disarmament Agency

Scientists' Institute for Public Information (Oil Emergency Task Force)

The Institute for the Future (Advisory Board on NSF Interactive Modeling Project)

Office of Technology Assessment, U.S. Congress (Advisory Board on U.S. Gas Supply)

Energy Research Commission of Sweden (Research Program Evaluation Committee)

Chairman: E.P.A. Peer Review Panel on Acid Deposition Research
United States Synthetic Fuels Corporation
National Acid Precipitation Assessment Program
California Public Utilities Commission (Advisory Board on Utility Model Reviews)
National Academy of Sciences (Energy Engineering Board Committee on The Gas
Research Institute)
Secretary of Energy Advisory Board
Intergovernmental Panel on Climate Change

REPRESENTATIVE PUBLICATIONS

"Energy Policy Modeling: A Survey" (with A.S. Manne and R.G. Richels), Operations Research, Vol. 27, No. 1, January/February 1979 (feature article).

"Modeling for Insights, Not Numbers; The Experiences of the Energy Modeling Forum" (with H. G. Huntington and J.L. Sweeney), OMEGA; The International Journal of the Management Sciences, Vol. 10, No. 5, August 1982.

"Methods and Algorithms for Combining Energy Models; Optimization in a Network of Process Models" (with W.W. Hogan), in B. Lev, editor, "Energy Models and Studies," Studies in Management Science and Systems, Vol. 20, 1983.

"The Energy Crisis is Over ... Again?" (With H.S. Rowen), Challenge; The Magazine of Economic Affairs, Vol. 26, No. 4, September/October 1983, pp. 12-17.

"General Economic Equilibrium as a Unifying Concept in Energy-Economic Modeling", Management Science, Vol. 31, No. 5, May 1985, pp. 548-563.

"Energy Policy Applications of Operations Research," in A. Barnett, S. Pollock and M.H. Rothkopf, editors, Beyond the Profit Motive: Public Sector Applications and Methodology. Handbooks in Operations Research, 1992, Volume 7.

"EMF 12: Model Comparisons of the Costs of Reducing CO2 Emissions," Volume 83, Number 2, The American Economic Review, May 1993.

"Costs of Reducing Global Carbon Emissions," Journal of Economic Perspectives, Vol. 7, No. 4, Fall 1993, pp. 27-46.

"A Review of Mitigation Cost Studies," (Lead Author) Chapter 9 in Climate Change 1995: Economic and Social Dimensions of Climate Change, Cambridge University Press, 1996.

"Integrated Assessment of Climate Change: An Overview and Comparison of Approaches and Results," (Convening Lead Author) Chapter 10 in Climate Change 1995: Economic and Social Dimensions of Climate Change, Cambridge University Press, 1996.

"Commentary on the IPCC Energy Assessment," Energy Policy, Vol. 24, Nos. 10/11,

October/November, 1996, pp. 1005-1008.

"Insights From Integrated Assessment," in "Critical Issues in the Economics of Climate Change," International Petroleum Industry Environmental Conservation Association, 1997, pp. 245-278.

Weyant, J., "Energy and Industrial Systems," Chapter 6 in Human Choice and Climate Change; An International Assessment, Pacific Northwest National Laboratory (1998, forthcoming)

Revised January 1998

Curriculum Vitae
February 27, 1998

John M. Reilly
phone 202-694-5505

fax 202-694-5773
e-mail JMREILLY@ECON.AG.GOV

Deputy Director for Research
Resource Economics Div.,
Rm S4189
Economic Research Service, USDA
1800 M Street, N.W.
Washington, D.C. 20005

Education: Ph.D. Economics, University of Pennsylvania, 1983; M.S. Economics University of Pennsylvania, 1979;
B.S. Economics and Political Science, University of Wisconsin, 1976

Employment:

| | | |
|------------------------|--|--------------|
| Agricultural Economist | US Department of Agriculture, Economic Research Service, USDA | 1986-present |
|------------------------|--|--------------|

Currently, Deputy Director for Research. Previously, Deputy Director for Technology, Resources and Technology Div.; Chief, Land and Capital Assets Branch; Leader, Technology Research and Assessment and Land Values Sections.

| | | |
|---------------------------|---|-----------|
| Visiting Senior Scientist | Center for Energy and Environmental Policy Research, Massachusetts Institute of Technology | 8/92-8/93 |
| Economist | Pacific Northwest Laboratory, Battelle Memorial Institute | 2/85-9/86 |
| Economist | Institute for Energy Analysis, Oak Ridge Associated Universities | 1/80-2/85 |
| Economist | Office of the Secretary, US Department of Transportation | 5/79-9/79 |
| Economist | Energy Information Administration, US Department of Energy | 5/78-9/78 |

Professional Activities and Awards: Member, American Economic Association, American Agricultural Economics Association, and American Association for the Advancement of Science; Superior Service Award, United States Department of Agriculture, 1989; Excellence Award for Research, Economic Research Service, 1989; Administrators Award for Research, Economic Research Service, 1989.

Experience: Numerous published articles, books, book chapters, and technical reports in the areas of global climate change, energy, domestic and international agriculture, and environment and natural resources including model development using econometric, simulation, non-linear optimization, and dynamic control techniques. Specific topics include climate change effects on agriculture and resources, trace gas emissions and climate change, biotechnology and technology assessment, agricultural research, ethanol production, nuclear waste management issues, international energy demand (developed and developing countries), residential energy demand forecasts, and land value outlook and research.

Have served in a variety of capacities on national and international panels and committees including, National Academy of Science Panel on Integrated Environmental and Economics Accounting (ongoing), Vice Chair, National Assessment Working Group, National Academy of Public Administration (expert reviewer), Convening Lead Author of the Agricultural Impacts Chapter for Working Group II of the Intergovernmental Panel on Climate (IPCC) in 1995, Chair of Federal task group on the Economics of Global Change in 1991-92, US representative to the Intergovern-

mental Panel on Climate Change (IPCC) in 1989, and as a member of the US delegation to the OECD agricultural research Director's meeting, Office of Technology Assessment Panels on Climate Change, EPA Science Advisory Board, DOE Program Review Committee, NOAA and NASA grants review, and NSF grants review and panels.

Articles

J. Reilly and D. Schimmelpfennig (forthcoming), "Agricultural Impact Assessment, Vulnerability, and the Scope for Adaptation," *Climatic Change*

J. Reilly and D. Schimmelpfennig (submitted), "Irreversibility, Uncertainty, and Learning: Portraits of Adaptation to Long-term Climate Change," *Climatic Change*

J. Reilly and K. Fuglie, (forthcoming), "Future Yield Growth in Field Crops: What Evidence Exists?" *Soil and Tillage Research Journal*.

J. Reilly, "Climate Change and Global Agriculture: Recent Findings and Issues." *American Journal of Agricultural Economics (Proceedings)*. 77: 1995.

J. Reilly, "Crops and Climate Change," *Nature (News and Views)*, vol. 367 (Jan. 13, 1994), pp. 118-119.

J. Reilly, N. Hohmann, and S. Kane, "Climate Change and Agricultural Trade: Who Benefits, Who Loses? Global Environmental Change, vol. 4, No. 1 (1994), 24-36.

J. Reilly and K. Richards, "An Economic Interpretation of the Trace Gas Index Issue," *Environmental and Resource Economics*, vol. 3, pp. 41-61, 1993

Kane, S. and J. Reilly, "Response: An Empirical Study of the Economic Effects of Climate Change on World Agriculture." *Climatic Change*, 24: 277-280 (1993) .

J. Reilly and Neil Hohmann. "Climate Change and Agriculture: The Role of International Trade." *The American Economic Review: Proceedings*, May 1993.

Kane, S., J. Reilly, and J. Tobey. "An Empirical Study of the Economic Effects of Climate Change on World Agriculture." *Climatic Change*, 21(1992):17-35.

Tobey, James, John Reilly, and Sally Kane. "Economic Implications of Global Climate Change for World Agriculture." *Journal of Agricultural and Resource Economics*. 17, 1 (July 1992): 195-204.

Reilly, J. and R. Conway, "Technology Policy and Agriculture: Discussion," *American Journal of Agricultural Economics (Proceedings)*, August, 1991.

Reilly, J., "Climate Change, Resources, and American Agriculture: Discussion," *American Journal of Agricultural Economics (Proceedings)*, Dec., 1989.

Kane, S. and J. Reilly. "Competitiveness of the US. Fuel Ethanol Industry," *Energy*, Vol. 14, No. 5 (1989), pp. 259-275.

Kane, S., J. Reilly, M. LeBlanc, J. Hrubovcak. "Ethanol's Role: An Economic Assessment," *AgriBusiness*, Summer, 1989.

Reilly, J. and S. Shankle. "Auxiliary Heating in the Residential Sector," *Energy Economics*, January, 1988, pp. 29-42.

Reilly, J., J. Edmonds, R. Gardner, and A. Brenkert. "Monte Carlo Analysis of the IEA/ORAU Energy/Carbon

Emissions Model," *The Energy Journal*, Vol. 8, No. 3 (July, 1987), pp. 1-29.

Reilly, J. and J. Edmonds. "Energy Forecasting and CO2 Emissions In Changing Climate: A Review," *The Energy Journal*, Vol. 6, No. 3 (July, 1985), pp. 137-154.

Edmonds, J. and J. Reilly. "Global Energy and CO2 to the Year 2050," *The Energy Journal*, Vol. 4, No. 3 (July, 1983), pp. 21-47.

Edmonds, J. and J. Reilly. "Global Energy Production and Use to the Year 2050," *Energy*, Vol. 8, No. 6 (June 1983), pp. 419-432.

Edmonds, J. and J. Reilly. "A Long-Term, Global, Energy-Economic Model of Carbon Dioxide Release From Fossil Fuel Use," *Energy Economics*, April 1983.

Books and Book Chapters:

J. Reilly, "Climate Change, Global Agriculture, and Regional Vulnerability," in *Global Climate Change and Agricultural Production*, [Fakhri Bazzaz and Wim Sombroek, eds.] John Wiley and Sons, Chichester, England, 1996, pp. 237-266.

J. Reilly, "Climate Change and Agriculture--Local, National, and Global Impacts," in ABARE 1997, *Outlook 97*, Proceedings of the National Agricultural and Resources Outlook Conference, Canberra, 4-6 February, vol. 1, *Commodity Markets and Resource Management*, ABARE, Canberra, 1997, pp. 49-63.

J. Reilly, "Climate Change, Global Agriculture, and Regional Vulnerability," in *Climate Change: Integrating Science, Economics, and Policy*, [N. Nakicenovic, W.D. Nordhaus, R. Richels, and F.L. Toth, eds.], CP-96-1, International Institute for Applied Systems Analysis, Laxenberg, Austria, Dec., 1996, pp. 47-82.

J. Reilly, "Global Warming May Not Cause Famine," in *Global Warming: Opposing Viewpoints* [Tamara Roleff, ed.], Greenhaven Press, Inc., San Diego, 1997, pp. 103-107 (reprinted from *Nature*).

Reilly, J. (Convening Lead Author), et al. "Agriculture in a Changing Climate: Impacts and Adaptations," in *Climate Change 1995: Impacts, Adaptations and Mitigation of Climate Change: Scientific-Technical Analyses*, [R.T. Watson, M.C. Zinyowera, and R.H. Moss, eds.], Cambridge University Press, Cambridge, 1996, pp.427-469

Contributing Author with others, *Climate Change 1995: Impacts, Adaptations, and Mitigation 1995, Summary for Policymakers*, Intergovernmental Panel on Climate Change, UNEP/WMO, Geneva, 1996.

Contributor with others, "Introduction: Scope of the Assessment," in *Climate Change 1995: Economic and Social Dimensions of Climate Change*, [James P. Bruce, Hoesung Lee, and Erik Haites, ed.s] Cambridge University Press, 1996, pp. 21-51.

Reilly, John, Neil Hohmann, and Sally Kane, "Climate Change and Agricultural Trade: Who Benefits, Who Loses," in *Climate Change and World Food Security* [Tom Downing, ed.], NATO ASI Series, Vol. I 37, Springer Verlag, Berlin, 1996, pp 161-180. (reprinted from *Global Environmental Change*).

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Senior Research Fellow, Department of Economics, University of Melbourne,
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Visiting Research Fellow, Department of Economics, University of
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Economist, Southern California Edison Company, Summer 1984.
Economist, Environmental Protection Agency, Summer 1983.

PUBLICATIONS

"Coastal Erosion and Sea Level Rise: Implications for Ocean Beach and San Francisco's Westside Sewer Transport Project," *Coastal Zone Management Journal*, 14(3), pp. 173-191, 1986.

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"Future Projections and Structural Change," in N. Nakicenovic, W.D. Nordhaus, R. Richels and F.L. Toth (eds.), *Climate Change: Integrating Science, Economics, and Policy*, Laxenburg, Austria: International Institute for Applied Systems Analysis, pp. 181-206, 1996. (with Philip Bagnoli and Warwick J. McKibbin)

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"The Effects of Fundamental Tax Reform and the Feasibility of Dynamic Revenue Estimation," in Joint Committee on Taxation, *Joint Committee on Taxation Tax Modeling Project and 1997 Tax Symposium Papers* (JCS-21-97), U.S. Government Printing Office, November 20, 1997. (with Dale W. Jorgenson)

"The Theoretical and Empirical Structure of G-Cubed," *Economic Modelling*, forthcoming. (with Warwick J. McKibbin)

"Global Economic Prospects: Medium Term Projections and Structural Change," in *The Sustainable Future of the Global System*, Tokyo: The United National University, forthcoming. (with Philip Bagnoli and Warwick J. McKibbin)

"Environmental Policy and International Trade," in M. McAleer, S. Mahendrarajan, and A. Jakeman, *Modeling Change in Environmental Systems*, forthcoming. (with Warwick J. McKibbin)

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 Natural Resource Law Center Fellow 1988-89
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National Science Foundation Review Panel on Valuation for
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 Editorial Council,
Journal of Environmental Economics and Management 1994-7
National Academy of Public Administration, Advisory Group
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 Capital in Planning for Sustainable Development 1992
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 Contributed Papers Selection Committee, American Association of
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United States Commission on Interagency Relations, Panel on
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United States Environmental Protection Agency, external reviewer
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American Journal of Agricultural Economics
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Journal of Environmental Economics and Management
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PUBLICATIONS (selected)

I. Articles, Comments

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Selected Professional Service and Awards

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Selected Publications

Environmental Economics. Theory and Practice, Oxford and London: Oxford University Press and MacMillan Publishers (with N. Hanley and B. White), 1997.

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Selected Professional Service and Awards

Editorial Services

1991- Editorial Board, *Environmental and Resource Economics*

1992-97 Editor, Association of Environmental and Resources Economist
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1991- Science Advisory Board, "Ecology, Economics and Environment," Kluwer
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- 1994 Distinguished Alumni Award, College of Business, University of Wyoming
- 1994-96 Member, Environmental Economics Expert Group, Black Sea Environmental Programme, Global Environmental Fund, United Nations Development Programme
- 1996- Nominator, Nobel Prize in Economics, Royal Swedish Academy of Sciences
- 1997- Adjunct Professor of Economics, University of Rhode Island

Selected Publications

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- "Self-Interest and Equity in a Bargaining Tournament with Non-Linear Payoffs," *Journal of Economic Behavior and Organization*, 1997.
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- "On the Bounds of the Economic Lore 'of Nicely-Calculated Less or More' for Natural Environments," *Modelling Change in Economic and Environmental Systems* (A. Jakeman, ed.) New York: John Wiley and Sons (with T.D. Crocker) (forthcoming 1998).

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PUBLICATIONS

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