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Record Group/Collection:	George H.W. Bush Presidential Records
Collection/Office of Origin:	Science and Technology Policy, Office of (OSTP)
Series:	Bromley, D. Allan, Files
Subseries:	Correspondence Files

OA/ID Number:	62013
Folder ID Number:	62013-003

Folder Title:
Invitation: General (3) [3 of 6] [1992]

Stack:	Row:	Section:	Shelf:	Position:
	0	0	0	0

"INVITATION FOR DR. BROMLEY"

TYPE: INVITATION DOCUMENT NUMBER: 9201786
ORIGINATOR: 02
****
SPEECH: YES NO

FROM: REID, Harry, BRYAN, Richard and CRAIG, Larry: U.S. SENATE

DATE OF EVENT: 06/16/92 THRU:
TENTATIVE DATES:

LOCATION OF EVENT: 325 RUSSELL SENATE OFFICE BUILDING

TIME OF EVENT: 5:30 P.M.-7:30 P.M.

SUBJECT: AN INVITATION TO ATTEND A RECEPTION AND EXHIBITION SPONSORED BY THE GOLD INSTITUTE.

****

RSVP: 06/01/92

CONTACT PERSON: HICKS, Maxine

CONTACT NUMBER: 202-835-0185
****

INVITATION ACCEPTED? YES (NO)

****
COPIES TO: PHYSICAL SCIENCES

REMARKS: 6/1/92 - Regretted to Maxine Hicks.
mn

DATE OF LETTER: 05/15/92 DATE RECEIVED: 05/18/92

FILE: P-INVITATION

Senator Harry Reid,
Senator Richard Bryan and
Senator Larry Craig
cordially invite you to celebrate

America's Gold

during a Reception and Exhibition
sponsored by
The Gold Institute

Tuesday, June 16, 1992
from 5:30 to 7:30 p.m.
325 Russell Senate Office Building

R.S.V.P.
Maxine Hicks (202) 835-0185
Please reply by June 15
By invitation only

The Gold Institute is a worldwide association of gold miners, refiners, fabricators and wholesalers established in 1976

AMERICA'S

THE GOLD INSTITUTE

IS PLEASED TO ANNOUNCE THAT

THE FOLLOWING ORGANIZATIONS

WILL EXHIBIT PRODUCTS MADE WITH GOLD

DURING THE RECEPTION:

TEXAS INSTRUMENTS INCORPORATED

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THE UNITED STATES MINT

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THE NEW SIGNATURE JEWELRY COLLECTION

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RECEIVED
92 MAY 18 P4:08

Allan Bromley
Assistant to the President - Science & Technology
The White House
OEOB 360
Old Executive Office Building
Washington, DC 20500

1986

THE GOLD INSTITUTE
1112 SIXTEENTH STREET, N.W., SUITE 240
WASHINGTON, D.C. 20036

"INVITATION FOR DR. BROMLEY"

TYPE: INVITATION DOCUMENT NUMBER: 9201792

ORIGINATOR: 02

****

SPEECH: YES NO

FROM: WINOGRAD, Schmuel: NATIONAL RESEARCH COUNCIL

DATE OF EVENT: 10/16/92 THRU: 10/17/92

TENTATIVE DATES:

LOCATION OF EVENT: KEY BRIDGE MARRIOTT HOTEL

TIME OF EVENT:

SUBJECT: AN INVITATION TO ATTEND THE 1992 MATHEMATICAL SCIENCES DEPARTMENT CHAIRS COLLOQUIUM.

****

RSVP: 06/01/92

CONTACT PERSON:

CONTACT NUMBER:

****

INVITATION ACCEPTED? ~~YES~~ NO

****

COPIES TO: PHYSICAL SCIENCES

REMARKS:

DATE OF LETTER: 05/15/92 DATE RECEIVED: 05/18/92

FILE: P-INVITATION

1792

NATIONAL RESEARCH COUNCIL
COMMISSION ON PHYSICAL SCIENCES, MATHEMATICS, AND APPLICATIONS
2101 Constitution Avenue Washington, D.C. 20418

BOARD ON MATHEMATICAL SCIENCES (202) 334-2421

May 15, 1992

Dr. D. Allan Bromley
Office of Science and Technology Policy
Old Executive Office Building
17th Street & Pennsylvania Avenue
Washington, DC 20506

Dear Dr. Bromley:

On Friday, October 16 and Saturday, October 17, 1992, the Board on Mathematical Sciences of the National Research Council will hold the 1992 Mathematical Sciences Department Chairs Colloquium at the Key Bridge Marriott Hotel in Arlington, Virginia. Each year between 150 and 200 of the chairs of the mathematical sciences departments in the United States gather at the Department Chairs Colloquium to discuss research and education. The theme of the colloquium this year, "Chairing the Changing Mathematical Sciences Department of the 1990s," is indicative of the goal of the Colloquium, which is to seek ways to balance research and education during a period when the interaction between research and education is changing. Experienced department chairs, newly appointed chairs and candidates for appointment as chairs all attend the Colloquium. A larger number of chairs from minority institutions are planning on attending this year.

The Board on Mathematical Sciences would like to invite you to address the Colloquium at a time of your convenience. (The Colloquium begins on the afternoon of Friday, October 16 and lasts through the afternoon of Saturday, October 17.) Your words will reach influential chairs of departments of all of the mathematical sciences--pure mathematics, applied mathematics, statistics, operations research, and scientific computing. We hope that your schedule will permit you to respond favorably.

Best regards,

Shmuel Winograd

Shmuel Winograd
Chair
Board on Mathematical Sciences

THE WHITE HOUSE

WASHINGTON

June 2, 1992

Dear Mr. Winograd:

Thank you for your letter of May 15 inviting me to address the 1992 Mathematical Sciences Department Chairs Colloquium scheduled for October 16 and 17, 1992, in Arlington, Virginia.

Because my schedule has become increasingly consumed with election year activities as well as my regular duties, I must regretfully decline.

Thank you for thinking of me. With best wishes,

Sincerely yours,

D. Allan Bromley
The Assistant to the President
for
Science and Technology

Mr. Shmuel Winograd
Chair
Board of Mathematical Sciences
National Research Council
2101 Constitution Avenue
Washington, D.C. 20418

"INVITATION FOR DR. BROMLEY"

TYPE: INVITATION DOCUMENT NUMBER: 9201816
ORIGINATOR: 02

****

SPEECH: YES NO

FROM: TEXAS A & M UNIVERSITY

DATE OF EVENT: 06/06/92 THRU:
TENTATIVE DATES:

LOCATION OF EVENT: TEXAS A & M UNIVERSITY

TIME OF EVENT: 2:30 P.M.

SUBJECT: AN INVITATION TO THEIR MEDICAL SCHOOL COMMENCEMENT CEREMONY.

****

RSVP: 06/01/92

CONTACT PERSON:

CONTACT NUMBER:

****

INVITATION ACCEPTED? YES (NO)

RBB.

****

COPIES TO: LIFE SCIENCES

Telephone Gattison Regrets.

REMARKS:

DATE OF LETTER: 05/14/92 DATE RECEIVED: 05/21/92

FILE: P-INVITATION



The Class of 1992

The Texas A&M University
College of Medicine
requests the honor of your presence
at the Celebration of Commencement
honoring the Class of 1992
on Saturday, the sixth of June
Nineteen hundred and ninety-two
at two-thirty in the afternoon
Rudder Theatre
University Center
Texas A&M University
College Station

"INVITATION FOR DR. BROMLEY"

TYPE: INVITATION DOCUMENT NUMBER: 9203144
ORIGINATOR: 02

****

SPEECH: YES NO

FROM: VALENTINE, TIM

DATE OF EVENT: 06/03/92 THRU:
TENTATIVE DATES:

LOCATION OF EVENT: RAYBURN HOUSE OFFICE BUILDING RM 2318

TIME OF EVENT: 10:00 AM

SUBJECT: INVITATION TO PRESENT THE VIEWS OF OSTP ON THE NATIONAL COMPETIVENESS ACT OF 1992.

****

RSVP: 06/02/92

CONTACT PERSON: TONY CLARK

CONTACT NUMBER: 202-225-8115

****

INVITATION ACCEPTED? Y YES NO

****

COPIES TO:

REMARKS:

DATE OF LETTER: 05/19/92 DATE RECEIVED:

FILE: P-INVITATION

CB

Put in supplement + close

sort



EXECUTIVE OFFICE OF THE PRESIDENT
OFFICE OF SCIENCE AND TECHNOLOGY POLICY
WASHINGTON, D.C. 20506

3144

May 21, 1992

Dear Mr. Valentine:

Thank you for your letter of May 19 inviting me to testify before the Subcommittee on Technology and Competitiveness on the National Competitiveness Act of 1992 on June 3. I am pleased to accept.

If I or my staff can be of further assistance, please let me know.

Sincerely,

D. Allan Bromley

D. Allan Bromley
Director

The Honorable Tim Valentine
Chairman
Subcommittee on Technology and
Competitiveness
Committee on Science, Space, and Technology
U.S. House of Representatives
Washington, D.C. 20515-6371

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U.S. HOUSE OF REPRESENTATIVES

COMMITTEE ON SCIENCE, SPACE, AND TECHNOLOGY

SUITE 2320 RAYBURN HOUSE OFFICE BUILDING
WASHINGTON, DC 20515-6301
(202) 225-6371

May 19, 1992

The Honorable D. Allan Bromley
Assistant to the President for Science and Technology
Director, Office of Science and Technology Policy
Executive Office of the President
Executive Office Building
Washington, D.C. 20506

Dear Dr. Bromley:

On Wednesday, June 3, 1992 the Subcommittee on Technology and Competitiveness will hold a hearing to solicit comments on the National Competitiveness Act of 1992. I would like to invite you to testify before the Subcommittee at that time to present the views of the Office of Science and Technology Policy (OSTP) on this legislation. The hearing will convene at 10:00 a.m. in Room 2318 of the Rayburn House Office Building.

The bill under consideration by the Subcommittee contains the first six titles of a more comprehensive legislative proposal, the American Technology and Competitiveness Act, introduced by Mr. Brown and myself. Of particular interest to the Subcommittee is OSTP's opinion on the policies and various programs proposed in the bill, especially as they relate to national technology policy.

Enclosed is a copy of the hearing charter and the Subcommittee rules governing the presentation of testimony for your information. We request that you highlight the most significant points in a five minute oral presentation to allow ample time for questions and discussion. If you have any questions concerning your appearance before the Subcommittee, you may contact Tony Clark at 202-225-8115 or Jim Greene at 202-225-8110 of the Subcommittee staff.

Cordially,

TIM VALENTINE, Chairman
Subcommittee on Technology
and Competitiveness

TV/tc
Enclosures

"INVITATION FOR DR. BROMLEY"

TYPE: INVITATION DOCUMENT NUMBER: 9201784

ORIGINATOR: 02

****

SPEECH: YES NO

FROM: PARS, Harry G.: NCII

DATE OF EVENT: 05/27/92 THRU:
TENTATIVE DATES:

LOCATION OF EVENT: 1001 PENNSYLVANIA AVENUE

TIME OF EVENT: 11:00 A.M.-2:00 P.M.

SUBJECT: AN INVITATION TO ATTEND THE THIRTEENTH ANNUAL MEETING OF THE TRUSTEES OF THE NATIONAL COUNCIL ON INDUSTRIAL INNOVATION.

****

RSVP: 05/22/92

CONTACT PERSON:

CONTACT NUMBER:

****

INVITATION ACCEPTED? ~~YES~~ NO

****

COPIES TO: INDUSTRIAL

REMARKS:

DATE OF LETTER: 05/12/92 DATE RECEIVED: 05/18/92

FILE: P-INVITATION

NATIONAL COUNCIL FOR INDUSTRIAL INNOVATION

RECEIVED
92 MAY 18 P4:02
OSTP
MAIL ROOM

May 12, 1992

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The Honorable D. Allan Bromley
Assistant to the President
for Science and Technology
The Old Executive Office Building
17th Street and Pennsylvannia Avenue, N.W.
Washington, DC 20500

Fascimile Number: (202) 395-3261

Dear Dr. Bromley:

It is my pleasure on behalf of the Board to invite you to the thirteenth Annual Meeting of the Trustees of the National Council on Industrial Innovation.

The meeting will be held on Wednesday, May 27, 1992 from 11 a.m. to 2 p.m. in the main conference room of the offices of Powell, Goldstein, Frazer & Murphy, 1001 Pennsylvannia Avenue, Suite 600, Washington.

This meeting will focus on the impact of Science and Technology on the National Economy. In particular, we will review and discuss an unheralded U.S. Government Program that without creating new funds, has the potential for jumpstarting the technology sector and manufacturing base of the country.

Please let my office know of your availability for this important meeting. Your presence and imput would be important to our deliberations. Among the guests will be the heads and coordinators of innovation programs for each of the departments of the U.S. government.

I look forward to hearing from you.

With kind regards,

Harry G. Pars

Harry G. Pars, Ph.D.

Office of the Chairman
P.O. Box 520 Lexington, MA 02173 TEL: (617) 862-7787 FAX: (617) 861-1522

"INVITATION FOR DR. BROMLEY"

TYPE: INVITATION DOCUMENT NUMBER: 9201688
ORIGINATOR: 02

****

SPEECH: YES NO

FROM: THE PRESIDENT AND MRS. BUSH

DATE OF EVENT: 06/02/92 THRU:
TENTATIVE DATES:

LOCATION OF EVENT: THE WHITE HOUSE

TIME OF EVENT: 6:00 P.M.

SUBJECT: AN INVITATION TO THE CONGRESSIONAL SUMMER PICNIC.

****

RSVP: 05/18/92

CONTACT PERSON: THE SOCIAL SECRETARY

CONTACT NUMBER: 202-456-7787

****

INVITATION ACCEPTED? ~~YES~~ NO

****

COPIES TO:

REMARKS:

DATE OF LETTER: 05/12/92 DATE RECEIVED: 05/12/92

FILE: P-INVITATION

The President
and Mrs. Bush
request the pleasure of your company
at a

SUMMER PICNIC

The White House
Tuesday, June 2, 1992
at six o'clock

CASUAL DRESS
Visitors Entrance · Identification required

Rain date June 3, 1992



THE AVENUE IN THE RAIN by Childe Hassam, 1917.

WHITE HOUSE COLLECTION

Congressional SUMMER PICNIC

Please respond to
The Social Secretary
THE WHITE HOUSE
at your earliest convenience

(202) 456-7787

THE WHITE HOUSE

The Honorable
D. Allan Bromley
358 Executive Office Building

1691

RECEIVED
15
MAIL ROOM

"INVITATION FOR DR. BROMLEY"

TYPE: INVITATION DOCUMENT NUMBER: 9201693
ORIGINATOR: 02

****

SPEECH: YES NO

FROM: VARMUS, Harold: UNIVERSITY OF SOUTHERN CALIFORNIA

DATE OF EVENT: 09/25/92 THRU: 09/26/92
TENTATIVE DATES:

LOCATION OF EVENT: SAN FRANCISCO, CA

TIME OF EVENT:

SUBJECT: HE IS FORWARDING INFORMATION ON THEIR SYMPOSIUM, "WINDING YOUR WAY THROUGH DNA".

****

RSVP: 05/26/92

CONTACT PERSON:

CONTACT NUMBER:

****

INVITATION ACCEPTED? [redacted] YES NO

****

COPIES TO: LIFE SCIENCES

REMARKS:

DATE OF LETTER: 05/12/92 DATE RECEIVED: 05/12/92

FILE: P- INVITATION

1693

Winding your way through DNA

University of California,
San Francisco
500 Parnassus Avenue,
MU 320W
San Francisco, CA 94143-0292
415/476-8429



RECEIVED
02 MAY 12 P12:12
OSP
MAIL ROOM

Dear Dr. Bromley

I thought you might be interested in the program we've assembled, in view of the current Biotech Initiative. If you should want to come + would like to attend the speakers' dinner on Sept 26th, please let me know.

Harold Varmus

1693

Winding your way through DNA

University of California,
San Francisco
500 Parnassus Avenue,
MU 320W
San Francisco, CA 94143-0292
415/476-8429

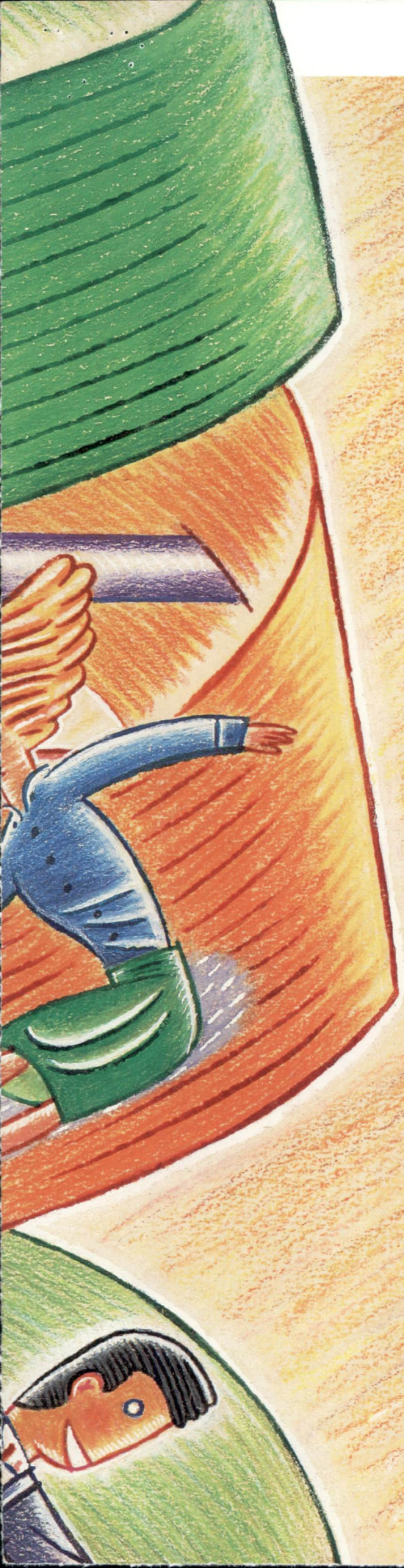
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92 MAY 12 P12:12
MAIL ROOM

Dear Dr. Bromley

I thought you might be interested in the program we've assembled, in view of the current Biotech Initiative. If you should want to come + would like to attend the speakers' dinner on Sept 26th please let me know.

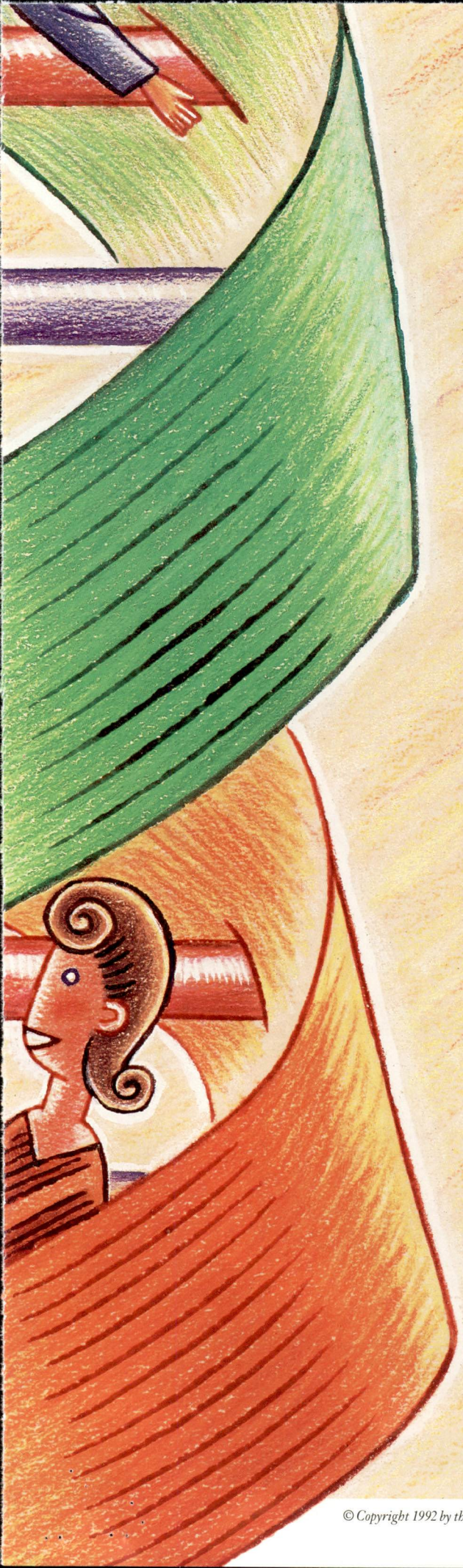
Harold Varmus





Winding your way through DNA

A SYMPOSIUM FOR THE PUBLIC ON THE SCIENTIFIC POSSIBILITIES AND SOCIAL



PUZZLES OF DNA TECHNOLOGY

September 25-26, 1992

FRIDAY EVENING AND ALL DAY SATURDAY

Discover the Wonder of DNA

◆

Learn New Ways to Use DNA

◆

Hear the Questions We All Must Ask About the Role of DNA Technology in Our Lives

Palace of Fine Arts Theatre San Francisco

PRESENTED *by the* **UNIVERSITY** *of* **CALIFORNIA, SAN FRANCISCO SCHOOL** *of* **MEDICINE** *with the* **SAN FRANCISCO EXPLORATORIUM**

FOR MORE DETAILS:
Registration information: 415/476-5808
General information: 415/476-6714
Call Monday-Friday, 8 a.m.-5 p.m.

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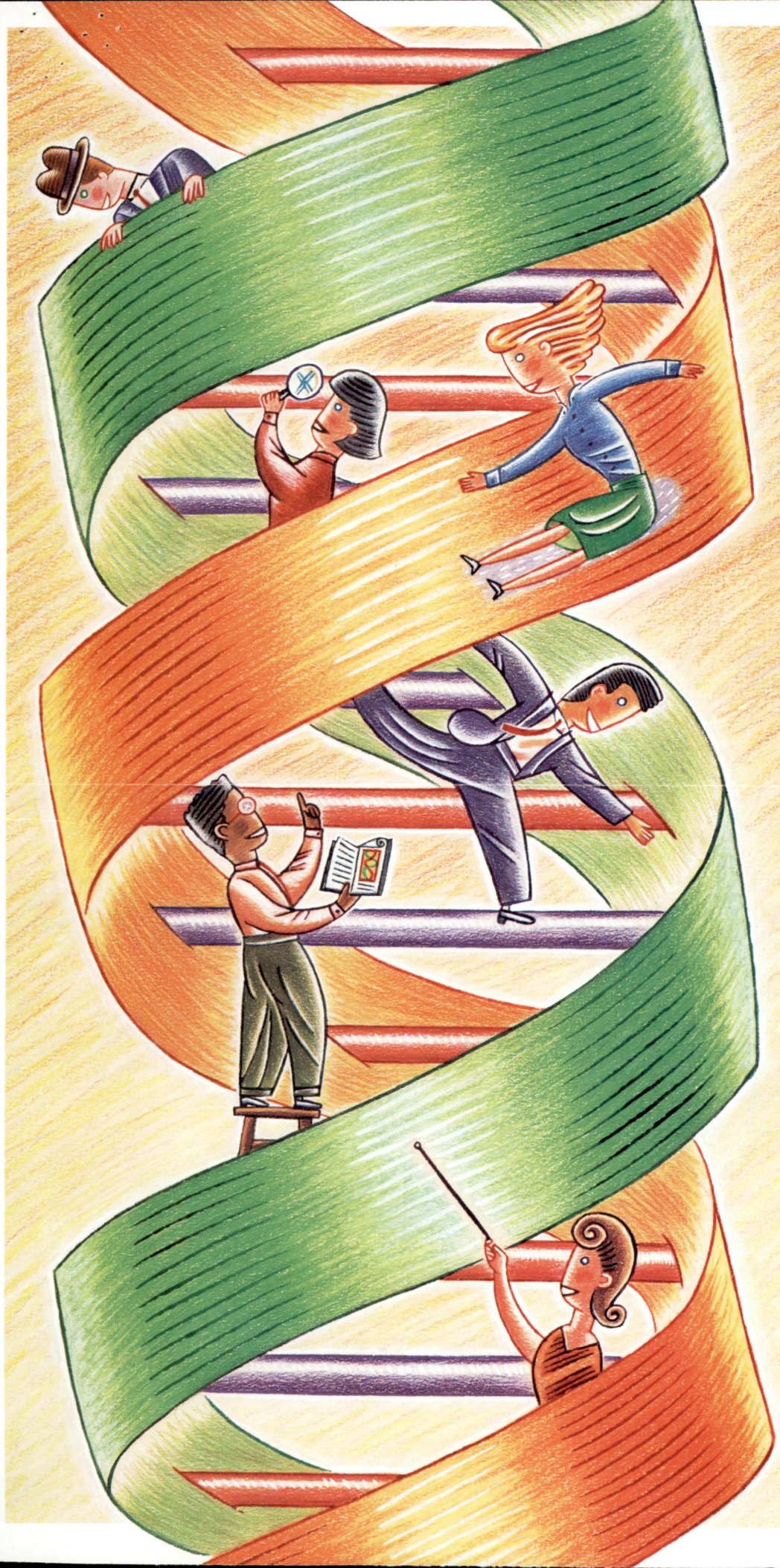


ILLUSTRATION BY BUD PEEN

Winding your way through DNA

A SYMPOSIUM FOR THE PUBLIC ON THE SCIENTIFIC POSSIBILITIES AND SOCIAL PUZZLES OF DNA TECHNOLOGY

September 25-26, 1992

FRIDAY EVENING AND
ALL DAY SATURDAY

Palace of Fine Arts Theatre San Francisco

PRESENTED
by the
UNIVERSITY *of* CALIFORNIA,
SAN FRANCISCO SCHOOL *of* MEDICINE
with the
SAN FRANCISCO EXPLORATORIUM

Winding Your Way Through DNA

What's all the talk about DNA? About recombining this and engineering that? About splicing and coding and cloning?

Whether or not you know the jargon, advances in DNA technology–sometimes called the "genetics revolution" or the "biotechnology revolution"–are touching us all.

Join the world's top scientists and experts on DNA technology as they spend a day-and-a-half talking shop in a way we can all understand. You'll learn what DNA is, how it can be maneuvered to improve life and why people are asking some big questions about these three little letters.

SESSION 1 FRIDAY EVENING, SEPTEMBER 25

5 P.M. - 7 P.M. **REGISTRATION**

7 P.M. - 10 P.M.

Discovering the Wonder of DNA SESSION 1

How did it all begin? What were the benchmark discoveries that started the revolution in DNA technology? How did those discoveries change the way scientists viewed the role of DNA? What do "chromosome," "gene," "genetic engineering," and "DNA" really mean? Learn the answers to these and other questions in SESSION 1.

Session host HAROLD E. VARMUS, MD, is professor of microbiology and of biochemistry at the University of California, San Francisco. In 1989 Varmus and his University of California, San Francisco colleague, J. Michael Bishop, were awarded the Nobel Prize in medicine for their studies of cancer-causing genes.

The Riddle of the Helix

A personal story of the early days of DNA research and of the historic discovery that set the world of science on its heels

JAMES D. WATSON, PHD, is director of the Cold Spring Harbor Laboratory on New York's Long Island and director of the National Institutes of Health's National Center for Human Genome Research in Bethesda, Maryland. Watson was awarded the Nobel Prize in medicine in 1962, with colleagues Francis Crick and Maurice Wilkins, for their discovery that the structure of DNA is a double helix–a shape like that of a spiral staircase.

Learning the Language of Life

How scientists learned to read the language of DNA and move its words around

PAUL BERG, PHD, is the Willson professor of biochemistry at Stanford University in Stanford, California, where he also serves as director of the Beckman Center for Molecular and Genetic Medicine. Berg shared the Nobel Prize in chemistry in 1980, with Walter Gilbert and Frederick Sanger, for studies in which he showed how to tie together–in a test tube–pieces of DNA from different species.

8:20 P.M. - 8:40 P.M. **BREAK FOR REFRESHMENTS**
IN THEATRE LOBBY

From Corned Beef to Cloning

How a late-night talk about the possibility of cloning DNA became a moment of personal disovery and sparked the revolution in DNA technology

STANLEY N. COHEN, MD, is professor of genetics and professor of medicine at Stanford University in Stanford, California.

HERBERT W. BOYER, PHD, is professor emeritus of biochemistry and biophysics at the University of California, San Francisco and a director, vice president and co-founder of Genentech, Inc., a company that produces medicines by using DNA technology.

Supporters

The organizers of this symposium wish to thank the following individuals and organizations for their generous support:

- FRIENDS OF THE UNIVERSITY OF CALIFORNIA, SAN FRANCISCO
- LUCILLE P. MARKEY CHARITABLE TRUST
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- UNIVERSITY OF CALIFORNIA SYSTEMWIDE BIOTECHNOLOGY RESEARCH AND EDUCATION PROGRAM
- SCIOS INC.
- SYNTEX CORPORATION

Listing as of March 25, 1992

Planning Committee

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SYMPOSIUM MANAGER

VALLI T. MCDOUGLE, *academic liaison, public service outreach programs, University of California, San Francisco*

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SALLY DUENSING, *science and museum liaison, the Exploratorium, San Francisco*

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KEITH YAMAMOTO, PhD, *professor and vice chair of biochemistry and biophysics, School of Medicine, University of California, San Francisco*

10:20 A.M. - 10:40 A.M. **BREAK FOR REFRESHMENTS**
IN THEATRE LOBBY

Green Genes

Looking for ways to produce stronger, heartier, more marketable plants with DNA technology

GERALD R. FINK, PHD, is director of the Whitehead Institute for Biomedical Research in Cambridge, Massachusetts and professor of molecular genetics at the Massachusetts Institute of Technology. While he is best known for his work with yeast, Fink also studies plant growth and development and has a long-standing interest in using DNA technology to modify plants.

Tales Our Genes Can Tell Us

How scientists are now able to "read" our genes and use what they learn to diagnose inherited disorders

MAXINE F. SINGER, PHD, is president of the Carnegie Institution of Washington, in Washington, D.C., and scientist emeritus of the National Institutes of Health in Bethesda, Maryland. She studies sections of DNA that "jump" from place to place on our chromosomes and has recently co-authored, with Paul Berg, the well-known text *Genes and Genomes*.

12 NOON - 1:30 P.M. **BOX LUNCHES**
NEAR REFLECTING POOL

SESSION 3 **SATURDAY AFTERNOON, SEPTEMBER 26**

1:30 P.M. - 5:30 P.M.

Asking the Tough Questions About DNA Technology SESSION 3

What are the ethics of using DNA technology to disclose our medical futures? Should the government regulate this new technology? Could DNA technology get out of control? Will DNA evidence now be used to decide court cases? How is technology affecting society in general and each of us as individuals? How can we exploit the benefits and limit the risks? SESSION 3 will explore the questions each of us must ask.

Session host RICHARD M. MYERS, PHD, is associate professor of physiology and of biochemistry at the University of California, San Francisco, where he also directs the Human Genome Mapping Center. In his lab, Myers and colleagues are charting our chromosomes to find the defects in DNA that cause inherited diseases such as Huntington's Chorea.

Walking the Ethical Tightrope

The ethical problems created by biotechnology's ability to predict inherited diseases

NEAL A. HOLTZMAN, MD, MPH, is professor of pediatrics at The Johns Hopkins University in Baltimore, Maryland. Holtzman has extensively studied, written about and lectured on the ethics of genetic testing for inherited predisposition to diseases. His most recent book is *Proceed with Caution: Predicting Genetic Risks in the Recombinant DNA Era*.

"Superplant to the Rescue?" or "Monsters in Our Backyards?"

The potential benefits and hazards of releasing genetically altered organisms into the environment

ROGER N. BEACHY, PHD, is a Scripps Family professor in the department of cell biology at The Scripps Research Institute in La Jolla, California, where he heads the division of plant biology. He also is co-director of the International Laboratory for Tropical Agricultural Biotechnology at Scripps. Beachy is perhaps best known for developing the world's first genetically engineered food crop resistant to disease.

2:50 P.M - 3:10 P.M. **BREAK FOR REFRESHMENTS**
IN THEATRE LOBBY

Should DNA Be Kept at Bay?

A look at the pros and cons of government regulation of DNA technology

DONALD KENNEDY, PHD, is professor of biological sciences at Stanford University in Stanford, California. He served as the eighth president of Stanford University and as commissioner of the Food and Drug Administration under President Jimmy Carter. He has also served on many state and national policy committees studying issues ranging from pesticide use to toxic waste disposal.

DNA on the Witness Stand

The issues concerning the use of genetic evidence in civil and criminal court cases

ERIC S. LANDER, DPHIL, is a member of the Whitehead Institute for Biomedical Research in Cambridge, Massachusetts, associate professor of biology and director of the Center for Genome Research, both at the Massachusetts Institute of Technology in Cambridge. Lander is an expert in using statistics to explore genetics and is a well-known authority on the use of DNA in forensics–using medical facts to solve legal problems.

Symposium in Perspective: Learning to Live with Technology

How society can adjust to the impact of new technology

LEON M. LEDERMAN, PHD, is the Frank L. Sulzberger professor of physics at the University of Chicago and director emeritus of the Fermi National Accelerator Laboratory in Batavia, Illinois, and chair of the State of Illinois Governor's Science Advisory Committee. Lederman is internationally known for his contributions to physics research and his active concern with the effects of science on society. He was awarded the Nobel Prize in physics in 1988.

QUESTIONS AND ANSWERS

To help clarify the ins and outs of DNA technology for the audience, the following panel of distinguished science journalists will ask questions of the speakers after each presentation.

- **NATALIE ANGIER** is a science reporter for *The New York Times.*
- **MARCIA BARINAGA, PHD**, is the West Coast correspondent for *Science* magazine.
- **MARILYN CHASE** is a staff reporter for *The Wall Street Journal.*
- **DAVID PERLMAN** is the science editor for the *San Francisco Chronicle.*

SUPPLEMENTAL LEARNING

Educators from the Science and Health Education Partnership program and the Human Genome Mapping Center, both at the University of California, San Francisco, and from the San Francisco Exploratorium are planning supplemental educational activities on DNA technology for students, teachers and the general public.

For details, phone 415/476-6714, Monday–Friday, 8 a.m. to 5 p.m.

Registration Information

FEES Fees are $20 for the general public. High school students are invited to attend at no charge, but MUST be registered to be admitted. Registration includes attendance to all symposium presentations, a symposium booklet, an invitation to the Friday night party, a box lunch on Saturday and refreshments on both days.

HOW TO ENROLL Please complete the registration form and return it to the UCSF Registration Office. Be sure to enclose a check or money order to cover your fees. Or you may pay with VISA or MasterCard. **THE REGISTRATION DEADLINE IS AUGUST 28.** Because a limited number of seats is available, early registration is advised.

RETURN FORM TO

EXTENDED PROGRAMS IN MEDICAL EDUCATION
UCSF Registration Office, Room LS-105
University of California, San Francisco
San Francisco, CA 94143-0742

CANCELLATIONS AND REFUNDS Cancellations of confirmed reservations must be received by the UCSF Registration Office–in writing–no later than September 11 for a full refund. No refunds will be given after this date.

WAITING LIST POLICY If all seats have been reserved by the time your registration form and payment are received and you do NOT wish to be put on the waiting list, your payment will be refunded to you. If you choose to be put on the waiting list, the UCSF Registration Office will keep your payment. Payments will be refunded to all those on the waiting list who are not ultimately registered.

FOR MORE INFORMATION For registration information, phone 415/476-5808, Monday–Friday, 8 a.m. to 5 p.m.
For information about supplemental learning activities, phone 415/476-6714, Monday–Friday, 8 a.m. to 5 p.m.

CUT FORM HERE

REGISTRATION FORM

PLEASE COMPLETE THIS FORM AND MAIL, WITH PAYMENT, BEFORE AUGUST 28, 1992. PRINT CLEARLY.

Name:_____
LAST FIRST MIDDLE INITIAL

Address: _____
STREET APT. NO.

_____
CITY STATE ZIP

Phone: (_____)_____ (_____)_____
WEEKDAY EVENING

PAYMENT METHOD ☐ Check *(Make payable to* **UC REGENTS***)* ☐ VISA ☐ MasterCard

Credit card number: _____|_____|_____|_____ Expiration date: ____|____|____

Please charge: $_____ to my credit card. Authorization signature:_____

FRIDAY NIGHT PARTY ☐ YES, I will attend the Friday night party. ☐ NO, I will not attend.

WAITING LIST ☐ YES, please put my name on the symposium waiting list if the symposium is sold out.
☐ NO, do not put my name on the waiting list.

SPECIAL NEEDS *Please indicate if you need:*
☐ Wheelchair access ☐ Sign language interpreter

SYMPOSIUM SURVEY *Please check the ONE category that best identifies you:*
☐ High school student ☐ UCSF alumnus, faculty, student, staff
☐ High school teacher ☐ Interested general public
☐ Higher education teacher/student *(non-UCSF)* ☐ Biotechnology industry representative

How did you learn about this symposium?
☐ From a mailing ☐ From the newspaper, radio, poster
☐ From a teacher, classmate, friend ☐ Other_____

Feel free to copy this form for others. PS 2 100

By combining their skills Cohen and Boyer devised, in the early 1970s, a way to splice together–or recombine–DNA from bacteria and frogs and then to grow the spliced DNA in the bacteria. This innovation–called DNA cloning–signaled the birth of genetic engineering. Cohen and Boyer each received a National Medal of Science for their individual contributions to genetics.

Those Marvelous Molecular Manufacturing Plants

How DNA can now be engineered in the lab to produce large amounts of useful proteins

DAVID BOTSTEIN, PHD, is professor and chair of genetics at Stanford University in Stanford, California and is renowned for his studies of yeast and of bacterial viruses. Botstein and his colleagues proposed a special way of mapping the order of genes on the long strands of DNA called chromosomes. This suggestion sparked the Human Genome Project, an international effort to chart the genetic instructions of many organisms, including those of humans.

The Double Talking Helix Blues

A bit of musical whimsy performed by the singing scientist of the University of California, San Francisco

IRA HERSKOWITZ, PHD, is chair of biochemistry and biophysics at the University of California, San Francisco where he heads the division of genetics. When not performing with his guitar, Herskowitz studies the ways in which yeast cells orchestrate their work and conduct their own symphonies of reproduction.

SYMPOSIUM PARTY

10 P.M. - 12 MIDNIGHT IN EXPLORATORIUM

Symposium Party JOIN US!

Relax, enjoy the food and festivities, and visit the Exploratorium's special exhibits on DNA

SESSION 2 SATURDAY MORNING, SEPTEMBER 26

8 A.M. - 9 A.M. **LATE REGISTRATION**

9 A.M. - 12 NOON

New Ways to Use DNA SESSION 2

How can DNA technology predict future illnesses and produce new medical therapies? What effects will this technology have on health care here and around the globe? How is DNA technology being used to increase our food supply? These questions will be addressed in SESSION 2.

Session host ELIZABETH H. BLACKBURN, PHD, is professor of microbiology and of biochemistry at the University of California, San Francisco. Much of her work is on "telomeres"–the bookends on our chromosomes that ensure genetic information is not lost when cells grow and divide.

New Weapons in the War Against Disease

How DNA technology is changing medical practice and care

DAVID W. GOLDE, MD, heads the division of hematologic oncology at New York's Memorial Sloan-Kettering Cancer Center where he also holds the Enid A. Haupt chair in hematologic oncology. Golde is well-known for his research in human leukemia and was the first to use a genetically engineered protein to stimulate the production of normal white blood cells.

DNA Technology for the Third World

What DNA technology can do to fight disease in developing countries

BARRY R. BLOOM, PHD, is the Weinstock professor of microbiology and immunology at Yeshiva University in New York City and investigator of the Howard Hughes Medical Institute. He also is advisor to the World Health Organization. Much of Bloom's research looks at how our bodies fight diseases common in developing countries–diseases such as tuberculosis and leprosy.

1535
University of California, San Francisco
500 Parnassus Avenue, MU 320W
San Francisco, California 94143-0292

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Winding your way through DNA



Winding Your Way Through DNA

PRESENTED
by the
UNIVERSITY *of* CALIFORNIA,
SAN FRANCISCO SCHOOL *of* MEDICINE
with the
SAN FRANCISCO EXPLORATORIUM

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DESIGN & PRODUCTION: *Alphabetics*
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PRINTING: *Laura Olson*

THE WHITE HOUSE

WASHINGTON

June 9, 1992

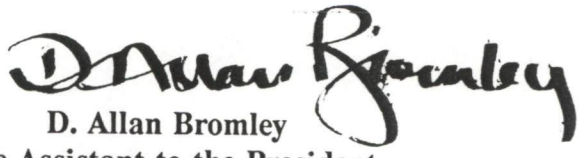
Dear Dr. Varmus:

Thank you for your note telling me about the symposium that you have scheduled for September 25-26, 1992 in San Francisco focussing on DNA Technology.

As much as I would like to join you election year activities as well as my regular duties have increasingly consumed my schedule, so I must regretfully decline.

Thank you for thinking of me and let me offer my best wishes for a successful symposium.

Sincerely yours,



D. Allan Bromley
The Assistant to the President
for
Science and Technology

Dr. Harold E. Varmus
University of California, San Francisco
500 Parnassus Avenue
MU 320W
San Francisco, California 94143

"INVITATION FOR DR. BROMLEY"

TYPE: INVITATION DOCUMENT NUMBER: 9201783
ORIGINATOR: 02

****

SPEECH: YES NO

FROM: BRANSCOMB, Lewis M.: HARVARD UNIVERSITY

DATE OF EVENT: 09/14/92 THRU:
TENTATIVE DATES:

LOCATION OF EVENT: HARVARD UNIVERSITY

TIME OF EVENT: 10:00 A.M.-6:00 P.M.

SUBJECT: AN INVITATION TO ATTEND A FORUM TO DISCUSS THE TECHNOLOGICAL DIMENSIONS OF THE NATION'S CONCERN'S ABOUT COMPETITIVENESS IN THE WORLD ECONOMY.

****

RSVP: 06/01/92

CONTACT PERSON:

CONTACT NUMBER:

****

INVITATION ACCEPTED? YES (NO)

****

COPIES TO: INDUSTRIAL

REMARKS:

DATE OF LETTER: 05/11/92 DATE RECEIVED: 05/18/92

FILE: P-INVITATION

1783

HARVARD UNIVERSITY

CENTER FOR SCIENCE AND INTERNATIONAL AFFAIRS

Professor Lewis M. Branscomb
Director, Science Technology and Public Policy Program
Albert Pratt Public Service Professor
(617) 495-1853

John F. Kennedy School of Government
79 J.F.K. Street
Cambridge, Massachusetts 02138
Fax: (617) 495-5776

RECEIVED
92 MAY 18 P 3 : 59
OSTP
MAIL ROOM

Dr. David Allan Bromley
Asst to Pres. S&T
Office of Science and Techn. Policy
Old Executive Office Building
Washington, DC 20506

Dear Allan,

On Monday, September 14, our Center for Science and International Affairs, in collaboration with the Center for Business and Government, is inviting a small group of influential and knowledgeable people to discuss the technological dimensions of the nation's concerns about competitiveness in the world economy, and to focus on roles for government. Please set this date aside, for we are very keen to have your participation. Most of the time will be reserved for discussion, but as soon as we have an indication of who can attend we will ask a number of participants to prepare 10 to 15 minute kick-off presentations for each topic.

This one-day workshop conference on Government Roles in Civilian Technology will begin at 10:00 am and end at 6:00 pm with a dinner; a number of business and academic leaders will be invited to join the workshop participants. After dinner two speakers will provide alternative views of public policy choices concerning Technology and Economic Performance. Workshop participants are encouraged to join in the discussion that follows these public Corliss Lamont Lectures in the Kennedy School Forum. The Forum discussion will be moderated by Prof. Ashton Carter, Director of the Center for Science and International Affairs.

As is customary with our workshops and with the Lamont Lectures, a summary of the discussion and the lectures will be published in an appropriate form for wider dissemination.

There is intense interest in what the government can or should do (and not do) to strengthen the long-term health of a U.S. economy in a competitive world of falling trade barriers. The Bush Administration, after tabling its **U.S. Technology Policy** in Sept. 1990, has taken a number of significant steps, reflected in the FY 1993 budget, to reshape its R&D investments to contribute more effectively to the technological roots of U.S. competitiveness. Private business organizations such as the Microelectronics and Computer Corporation are organizing collaborative technical activities with little or no dependence on government funding, and the intense interest in the Baldridge Award suggests a turn-around in the attitudes of industrial manufacturing managers.

On the other hand, many voices inside and outside government are calling for even more

active steps to enhance the technological comparative advantage of American firms and workers. Four recent examples are **Gaining New Ground: Technology Priorities for America's Future** from the Council on Competitiveness, **Technology and Economic Performance,** from the Carnegie Commission on Science, Technology and Government, **Building a New Alliance: The Government Role in Civilian Technology,** from the Academies of Science and Engineering and the IOM, and **Building a Competitive America,** the report of the Competitiveness Policy Council.

While a consensus may be emerging on what government roles are appropriate, and which are not, there are still broad differences of view about the institutional structures that are most appropriate, about the extent and nature of policy restraint on the scope of government activities. We feel it is important during an election year to hear a spectrum of views. Yours will be particularly interest to our workshop.

There will be no fees associated with the workshop or the dinner and Forum. We have a limited amount of financial support to help defray hotel and travel costs for those who cannot otherwise participate. The enclosed postcard asks you to tell us whether you wish to participate and whether your ability to do so is contingent on financial assistance with travel.

Sincerely,

Lewis M. Branscomb

May 8, 1992
encl: prelim. program
cc: Ashton Carter
Edgar Davis

Harvard University
GOVERNMENT ROLES IN CIVILIAN TECHNOLOGY
A Workshop Conference and Public Forum

John F. Kennedy School of Government
Cambridge, MA
September 14, 1992

The Workshop is jointly sponsored by the Center for Science and International Affairs and the Center for Business and Government. Participation in the Workshop is by invitation. Organizers: Prof. L.M. Branscomb, STPP, and Mr. Edgar Davis, Business and Government Fellow. Invited Workshop participants are also invited to a dinner following the close of the workshop, and to the public Corliss Lamont Lectures in the Kennedy School Forum at 8:00 pm. The Forum hosts are the Institute of Politics and the Center for Science and International Affairs. A summary of the workshop and the Lamont Lectures will be published. Support by a grant from the Alfred P. Sloan Foundation and the Lamont Endowment is gratefully acknowledged.

PROGRAM (provisional)

9:30 Coffee and rolls; registration.

Session 1):
10:00 - 10:40: Overview of the issues.

Motivation for re-examining federal technology policy: obsolescence of the post-war paradigms for relationships of government, science, and industrial innovation and productivity.

Parts of the problem: changing roles and needs of defense; enhancing comparative advantage of US institutions; market failures for private investment in the industrial technology base; evolving debate about appropriate roles for government.

Summary of the political dimensions of the problem.

(Session 2)
10:40 - 11:20: Defense: changing goals and changing roles.

Should Defense agencies be expected to continue to be a source of technical stimulation to commercial industry? If so, how? Should SEMATECH be funded by defense, by a civil agency, or not by government at all? How must defense acquisition policy change if defense is to gain more effective access to leading edge commercial technology, here and abroad? Should DARPA's role change, for example to "NARPA" as proposed by the Carnegie Commission?

(Session 3)
11:20 - 12:45: Generating commercially-relevant technology:

Should civil agencies of government invest? If so, are new policies and/or institutions needed?

* Criteria for investing in "public good" technologies: NIST and the Advanced Technology Program.

* New institutions: the Civilian Technology Corporation and other "CARPA" proposals.

Lunch: 12:45 - 2:00

(Session 4)
2:00 - 3:45: Policies/programs to encourage access, adaptation, and successful use of government and public technologies:

2:00 - 2:50: National laboratories, universities, and "tech-transfer"

National Laboratories: Can "tech-transfer" (Stevenson-Wydler) make national laboratories useful to the economy? Are more demand-oriented approaches required?

2:50 - 3:45: Industrial extension and the states.

What is the government role in addressing manufacturing technology in US firms and in universities? How can competitive industrial practice be more broadly disseminated? Is there a future for State and/or federal efforts in industrial extension? How important is information infrastructure (NREN, CALS, EINET, etc.) to competitiveness?

Coffee break 3:45 - 4:15

(Session 5)
4:15 - 5:15: Industry-centered approaches: Cooperative research, anti-trust, government-supported consortia other policies:

To what extent do government encouragement to industrial consortia and other forms of cooperation and alliances, the softening of anti-trust interpretations, more market-oriented regulatory strategies, and provide the answer to the technological component of competitiveness? What lessons from EEC and Japanese experience should we learn?

(Session 6)
5:15 - 6:00: International dimensions to US strategies for enhancing competitiveness:

Direct Foreign Investment: what attitude should Americans take to DFI in high tech industry? If the government does help US firms, "who's US?" Comparative advantage: to what extent should the US expect to leverage weakness in some strategic technologies with strengths in others? How? What is the role of international cooperation in S&T in the U.S. domestic economy agenda?

Dinner: 6:30 to 7:50

Lamont Lectures and public discussion: 8:00 pm

Prof. Ashton Carter, presiding, in the Kennedy School Forum.

For further information contact

Nora Hickey
Room L-364
John F. Kennedy School of Government
79 John F. Kennedy Street
Cambridge MA 02138

telephone 617-496-7466
telefax 617-495-5776



Prof. Lewis M. Branscomb
John F. Kennedy School of Government
Harvard University
79 JFK Street
Cambridge, MA 02138

GOVERNMENT ROLES IN CIVILIAN TECHNOLOGY
A Workshop Conference and Public Forum
September 14, 1992

NAME _____

FAX _____

PHONE _____

Yes, I will attend._____

No, I am unable to attend._____

I would like to attend but I am unable to confirm until a later date._____

GOVERNMENT ROLES IN CIVILIAN TECHNOLOGY
A Workshop Conference and Public Forum
September 14, 1992

NAME D. Allan Bromley

FAX 202/395-3261

PHONE 202/456-7116

Yes, I will attend._____

No, I am unable to attend. XX

I would like to attend but I am unable to confirm until a later date._____

You have marked off your calendar for August 31 but the remainder of the time is open.

Marian



Document Originally
Attached to
Following Page

"INVITATION FOR DR. BROMLEY"

TYPE: INVITATION DOCUMENT NUMBER: 9201736
ORIGINATOR: 02

****

SPEECH: YES NO

FROM: MALASPINA, Alex: INTERNATIONAL LIFE SCIENCES INSTITUTE

DATE OF EVENT: 08/31/92 THRU: 09/03/92
TENTATIVE DATES:

LOCATION OF EVENT: WASHINGTON, DC

TIME OF EVENT:

SUBJECT: AN INVITATION TO ADDRESS THEIR CONFERENCE ON THE SAFETY OF WATER DISINFECTION.

****

RSVP: 05/29/92

CONTACT PERSON:

CONTACT NUMBER:

****

INVITATION ACCEPTED? YES (NO)

****

COPIES TO: LIFE SCIENCES

REMARKS: 5/28/92 - Regretted to Diane Delaisera!
mn

DATE OF LETTER: 05/11/92 DATE RECEIVED: 05/15/92

FILE: P-INVITATION

1736

ILSI

INTERNATIONAL LIFE SCIENCES INSTITUTE
1126 Sixteenth Street, N.W. • Washington, D.C. 20036

Telephone: (202) 659-0074
Telex: 6814107 NUFOUND
Facsimile: (202) 659-3859

Alex Malaspina
President

May 11, 1992

Honorable D. Allen Bromley
Assistant to the President
for Science and Technology
Old Executive Office Building
17th and Pennsylvania Avenue, N.W.
Washington, DC 20500

Dear Dr. Bromley:

The International Life Sciences Institute (ILSI), a nonprofit scientific research foundation dedicated to promoting international cooperation and consensus in solving problems relating to food safety, toxicology and environmental health, is cosponsoring a major scientific conference August 31 - September 3, 1992, in Washington, DC, on the safety of water disinfection. Other cosponsors include the U.S. Environmental Protection Agency, the U.S. Food and Drug Administration, the Pan American Health Organization, the World Health Organization, and the American Water Works Association.

The "First International Conference on the Safety of Water Disinfection: Balancing Chemical and Microbial Risks" will explore the challenges of providing safe water supplies worldwide. The conference will be held at the JW Marriott (14th Street and Pennsylvania Avenue) in Washington, D.C. We expect an audience of several hundred highly dedicated national and international scientists and public health officials to attend.

Because of your commitment to promoting the most credible scientific approach to assessing human health risks, I would like to invite you to address the audience on the challenges facing regulatory and research scientists in the U.S. in ensuring a safe water supply. We would very much like you to make your presentation the afternoon of August 31, the opening day of the conference. For your information, we have also invited President Bush to give the keynote address, and are excited about the possibility of his participation. Your presentation regarding the U. S. perspective on water disinfection would follow the keynote address. Copies of the correspondence between us and the White House are enclosed together with the conference program and a brochure describing ILSI.

I hope that you will agree to address our conference. Your views on the subject of this most vital natural resource will be timely and are sure to be well received. A member of the ILSI staff will contact your office in the next week or so to follow up on this invitation and to answer any questions you may have.

Sincerely,

Alex Malaspina

Alex Malaspina

Enclosures

ILSI

INTERNATIONAL LIFE SCIENCES INSTITUTE
1126 Sixteenth Street, N.W. • Washington, D.C. 20036

Telephone: (202) 659-0074
Telex: 6814107 NUFOUND
Facsimile: (202) 659-3859

Alex Malaspina
President

March 17, 1992

The President
The White House
Washington, D.C. 20500

Dear Mr. President:

This is a most cordial invitation for you to deliver the keynote address at a major scientific conference cosponsored by several national and supranational organizations: the U.S. Environmental Protection Agency, the U.S. Food and Drug Administration, the Pan American Health Organization, and the World Health Organization, and my own organization, the International Life Sciences Institute (ILSI).

The conference is entitled "The First International Conference on the Safety of Water Disinfection: Balancing Chemical and Microbial Risks" and will explore the challenges of providing safe water supplies worldwide. A preliminary announcement for the conference is enclosed together with a brochure describing ILSI. A goal of this scientific conference is to prevent tragic water-borne epidemics, such as the cholera scourge in Latin America. As you know, there is growing concern that the cholera affecting Latin America not spread to North America or elsewhere.

The conference will take place at the JW Marriott (14th Street & Pennsylvania Avenue) in Washington, D.C., on August 31 - September 3, 1992. We would very much like you to deliver the keynote address at any time during the conference but preferably in the early afternoon on August 31. Several hundred highly committed national and international scientists and public health officials will attend.

As a non-profit scientific research foundation supported by more than 200 major corporations worldwide, ILSI seeks to promote international cooperation and consensus in solving problems relating to food safety, toxicology, and environmental health. We have forged a unique global partnership of scientists in academia, government, and industry. Our work has important implications for the provision of safe and adequate food and water supplies worldwide and for the promotion of environmentally responsible and sustainable economic growth and free trade.

As the world looks increasingly to the United States for leadership, and as the U.S. public depends ever more earnestly on federal protection from contamination of vital resources such as water, I believe you will find the subject of the conference especially timely and significant. Should you so choose, we would be honored for you to use this conference as a platform to make a policy statement on the environment in general and the importance of water in particular.

On behalf of the International Life Sciences Institute, I wish you success in your future challenges at home and abroad. In the meantime, I hope we can plan on including you as the keynote speaker for this major international water safety conference.

Sincerely,

Alex Malaspina

Alex Malaspina

Enclosures
cc: Mr. William K. Reilly, EPA
Dr. David A. Kessler, FDA

THE WHITE HOUSE

WASHINGTON

April 2, 1992

Dear Mr. Malaspina:

Thank you for your invitation for the President to deliver the keynote address at the Scientific Conference co-sponsored by the International Life Sciences Institute on August 31, 1992.

We appreciate your extending this opportunity to the President. Although we are unable to make a commitment at this time, we are making a special note of this date. Your invitation will be carefully reviewed as the President's schedule develops, and we will be back in touch with you closer to the time about the possibility of his acceptance.

With best wishes,

Sincerely,

Katherine L. Super

KATHERINE L. SUPER
Deputy Assistant to the President
for Appointments and Scheduling

Mr. Alex Malaspina
President
International Life
Sciences Institute
1126 16th Street, N.W.
Washington, D.C. 20036

P R O G R A M

FIRST INTERNATIONAL CONFERENCE ON THE

Safety of Water Disinfection



Balancing Chemical & Microbial Risks

August 31 – September 3, 1992
Washington, D.C.

Sponsors

International Life Sciences Institute (ILSI)

Pan American Health Organization

U.S. Environmental Protection Agency

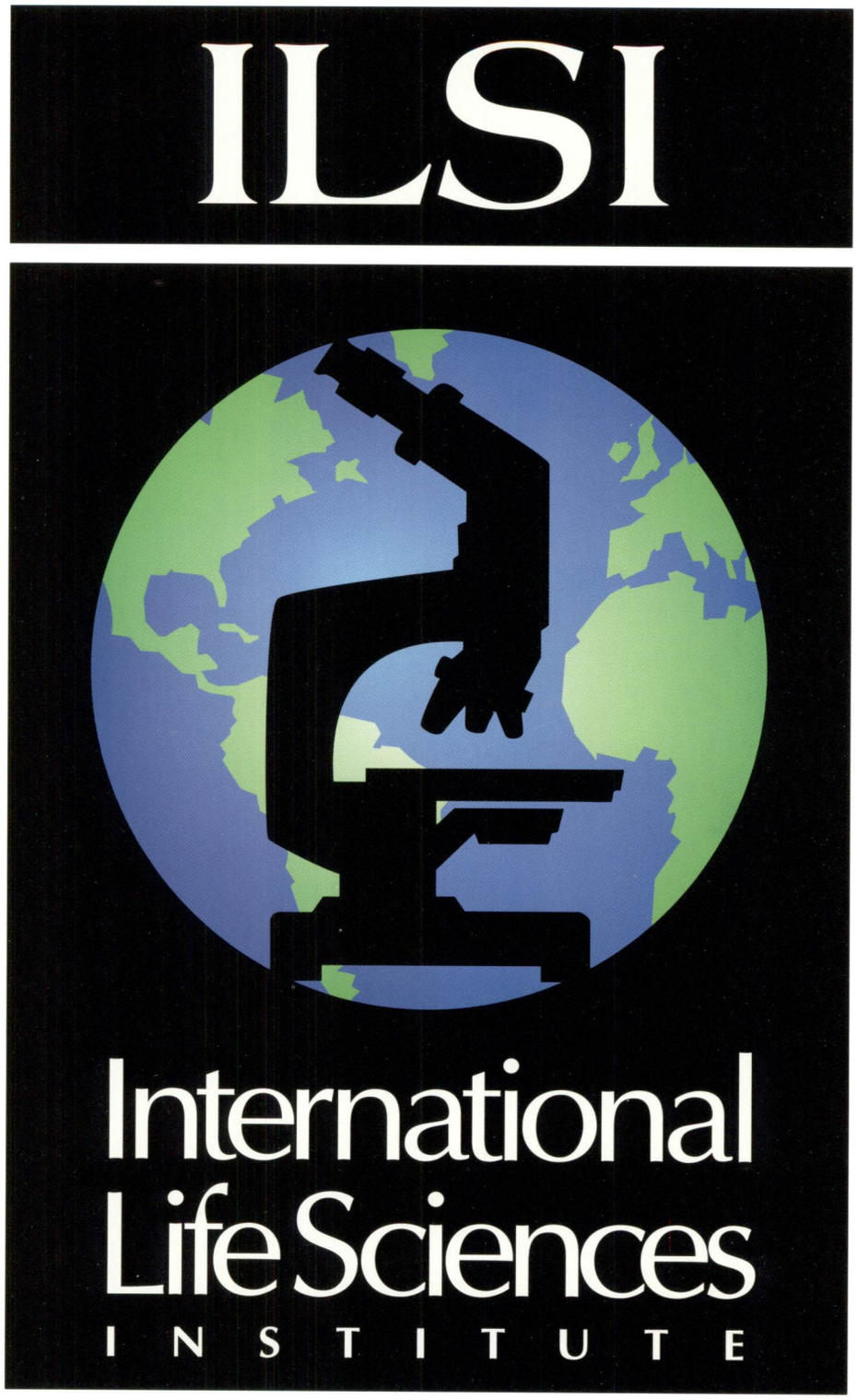
U.S. Food and Drug Administration

World Health Organization

American Water Works Association



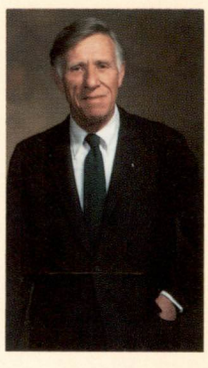
TOWARD A SAFER HEALTHIER WORLD



TOWARD A SAFER, HEALTHIER WORLD



"As the world grows smaller and the barriers between nations recede, we have come to recognize that the issues confronting us are common ones. Our health and well-being, the quality of the food we eat, and the measures we take to protect our environment are global concerns that will increasingly dominate our lives in the years to come. Resolving these issues will require more collaborative efforts that draw on the talent and resources of individuals and organizations, both private and public, from around the world. If we are united by our goal – a healthier, more liveable world – we must accept our shared responsibility to take effective action in bringing it about. ILSI has proven that diverse interests can unite to advance our understanding of the science underlying so many problems and, in so doing, pave the way for solutions that are sound as well as feasible."



■ Dr. Konrad E. Bloch, Higgins Professor of Biochemistry, Emeritus, Harvard University, and Nobel Laureate in Physiology-Medicine, is a member of the ILSI Research Foundation Council of Scientific Advisors.



ILSI sponsors scientific studies at major universities and research centers worldwide.

RESEARCH AWARD RECIPIENTS

- Johan H. Auwerx, M.D., Catholic University of Leuven, "Regulation of Lipoprotein Lipase Gene Expression"
- Melvin Billingsley, Ph.D., Milton S. Hershey Medical Center, "Neuronotypic Enzymes as Indices of Neurotoxicity: Immunocyto-chemical, Morphological and Biochemical Analyses"
- Kim Boekelheide, M.D., Ph.D., Brown University, "2,5-Hexanedione-Induced Testicular Atrophy: From the Rat Sertoli Cell Cytoskeleton to the Epidemiology of Human Exposure"
- Michael S. Dennison, Ph.D., Michigan State University, "Molecular Mechanism of Dioxin Action: Comparative Studies of the Binding of Ah Receptor to a Dioxin Responsive Transcriptional Enhancer"
- Thomas Gasiewicz, Ph.D., University of Rochester, "The Ah Receptor: Its Role in the Toxicity of 2, 3, 7, 8-Tetrachlorodibenzo-p-dioxin"
- Danielle Greenberg, Ph.D., Cornell University Medical College, "Physiological Mechanisms Controlling Fat Intake"
- Joshua Hamilton, Ph.D., Dartmouth Medical School, "Targeting of DNA Damage in Vivo"
- Michael Hanley, Ph.D., Medical Research Council, University of Cambridge (now located at the University of California/Davis), "Application of Clonal Cell Lines to the Molecular and Cellular Analysis of Metabolic Pathways and Biological Roles of Inositol"
- James P. Hardwick, Ph.D., Northeastern Ohio Universities College of Medicine, "Genetic Mechanisms Involved in the Transcription of the Omega Hydroxylase Gene Family (P450IV) in Rodents and Humans by Hypolipidemic Agents"
- James Lefkowith, M.D., Washington University Medical School, "Modulation of the Inflammatory Response by Dietary Polyunsaturated Fatty Acid Manipulation"
- Mark P. Mattson, Ph.D., University of Kentucky, "Calcium Homeostasis and Fetal Brain Neuron Development"
- Richard Rogart, M.D., Ph.D., University of Chicago, "Molecular Structure of Toxin Resin Receptors on Sodium Channel Isoforms"
- Marsha Rosner, Ph.D., University of Chicago, "Phosphoproteins in Mammalian Brain: A Comparative Study"
- David A. Talmage, Ph.D., Columbia University College of Physicians and Surgeons, "Vitamin A Signal Transduction and Cell Differentiation"

Now in its second decade, the International Life Sciences Institute (ILSI) has emerged as a major contributor to improved public health and safety throughout the world. Through the research we support on nutrition, food safety, environmental hazards, and other health-related topics, we expand the scientific base in areas where additional accurate and authoritative information is needed to resolve uncertainties. Through our symposia and workshops, as well as an expanding series of publications, we communicate the latest findings and provide information to scientists and policy makers in industry, the academic community, and government.



Dr. Alex Malaspina,
ILSI President

Beginning with our earliest investigations on the safety of foods and their ingredients in the late 1970s to more recent studies on food-borne microorganisms, risk assessment, biomarkers, and oncogenes, our efforts have earned us recognition by the World Health Organization and the Food and Agriculture Organization of the United Nations, and enabled us to work cooperatively with the U.S. National Institutes of Health, the U.S. Environmental Protection Agency, the Japanese National Cancer Center, and other national and international organizations.

Underlying our activities is the belief that industry, government, and the general public share a growing concern for food safety and environmental protection. Whether the concern focuses on the food we eat, the products we use, or the chemicals we come in contact with, our common purpose is to protect and enhance human health and improve the quality of life.

What sets ILSI apart from other institutions is our demonstrated effectiveness in drawing on the talent and expertise of individuals and organizations around the world to forge a partnership among industry, academia, and government in solving common

COSPONSORS OF ILSI PROGRAMS

American Cancer Society

Australian Federal Bureau of Consumer Affairs

Belgian Ministry of Public Health

Brookings Institution, USA

Centre Europeen de Normalisation, Belgium

Ecole Superieure d'Ingenieurs en Emballage et Conditionnement, France

European Economic Communities

European Food Law Association, Belgium

Food and Agriculture Organization of the United Nations (FAO)

Group of European Nutritionists

International Agency for Research on Cancer (IARC)

Japanese Ministry of Health and Welfare

Japanese National Cancer Center

Joint FAO/WHO Expert Committee on Food Additives

Nara Medical University, Japan

Pan American Health Organization

Royal Melbourne Institute of Technology, Australia

TNO-CIVO Institute, The Netherlands

Toxicology and Pathology Society of Japan

University of Reims, France

U.S. Agency for International Development

U.S. Centers for Disease Control

U.S. Environmental Protection Agency

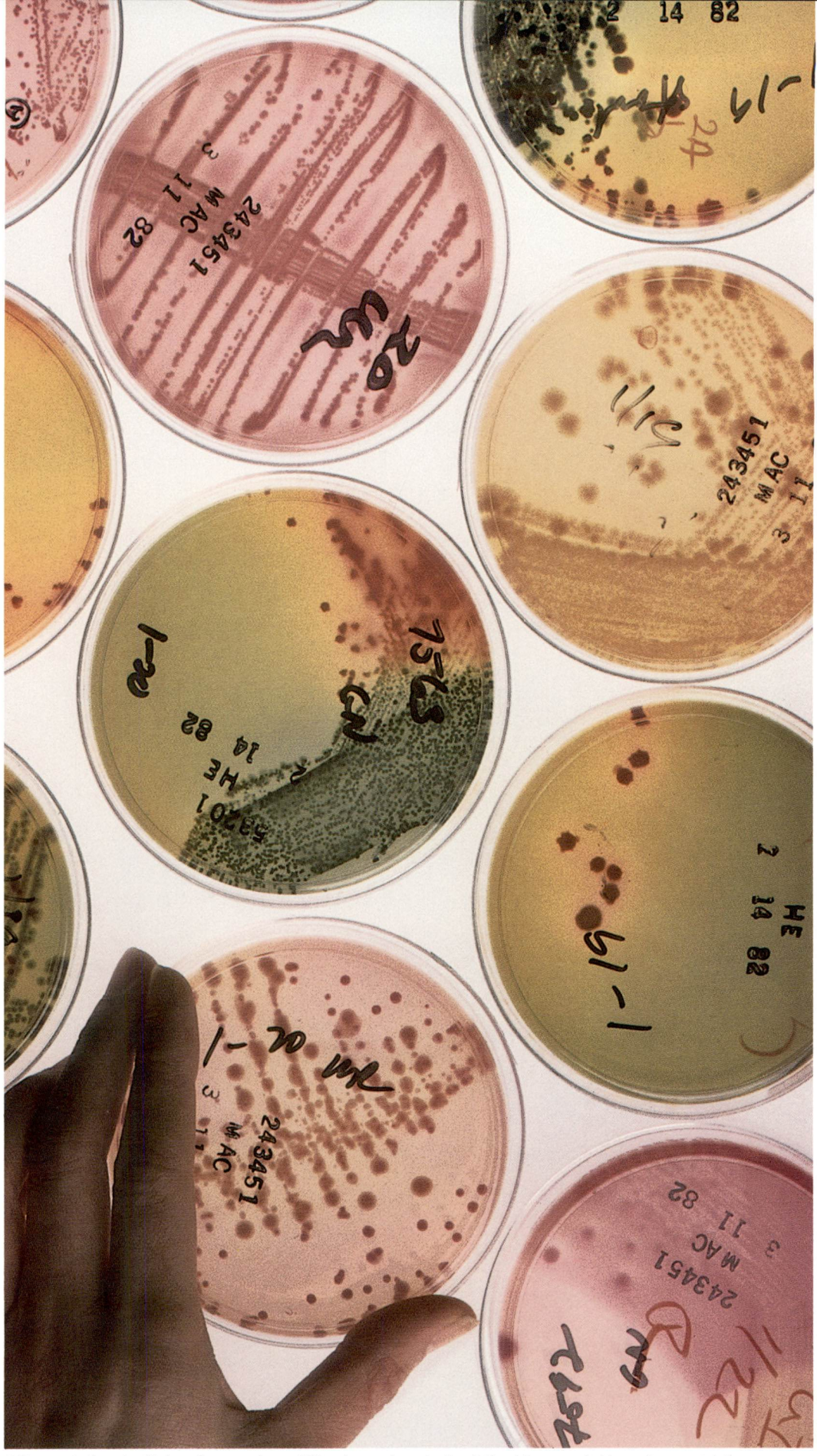
U.S. Food and Drug Administration

U.S. National Cancer Institute

U.S. National Institute for Environmental Health Sciences

World Health Organization, Switzerland

World Health Organization, Europe, Denmark



ILSI expands the scientific base in areas where additional accurate and authoritative data are needed to resolve uncertainties.

problems. Stressing objectivity and collaboration, we bring together knowledgeable people from both the public and private sectors to identify the questions that need to be addressed, to agree on the most effective steps to obtain answers to these questions, and to find and support qualified scientists to undertake both short-term and longer-duration investigations.

Our purpose is also educational. By communicating the results of the studies we sponsor to the international research community, industry, regulatory agencies, and indirectly the general public, we promote rational and effective decision making.

As we look to the future, we believe ILSI can have an even greater impact on the resolution of pressing health and safety-related issues facing our global community. Issues concerning the safety of food ingredients, chemicals, and drugs will continue to arise and increase in complexity. Developments in genetics, microbiology, immunology, molecular biology, and neurobiology are changing the way we produce food, control disease, and safeguard our health. At the same time, new concerns about our environment and the health of the public constantly emerge. Responding to these challenges will require the collaboration of scientists in different fields and the cooperation of industry, government, and the academic research community.

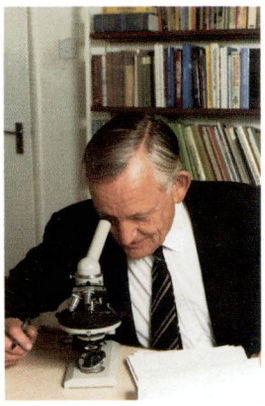
Because these are issues without geographic boundaries, their resolution will depend on the cooperation of countries and organizations from around the world. ILSI has demonstrated that it can make a unique contribution to establishing that partnership. With branches in Australia, Europe, Japan, Latin America, and North America, and an industrial membership made up of more than 200 companies worldwide, we already have set in place an international network of individuals and organizations dedicated to the improvement of our environment and the betterment of human health.



"This grant enabled me to take on a relatively high-risk area of scientific research at an early stage of my scientific career. It allowed me to combine the techniques of molecular biology to study the effects of toxic substances on the nervous system.

"The difficulty in obtaining federal funding for basic research has led many people to abandon research as a career, so alternative sources of funding, such as ILSI, are clearly going to be more and more important in performing basic scientific research."

■ Dr. Melvin Billingsley, Milton S. Hershey Medical Center, Pennsylvania State University, is a recipient of an ILSI Research Foundation Research Award.



"Following the success of its operations in Australia and Japan, ILSI is now providing the framework in which Europeans can overcome traditional difficulties in communication. Scientists from all settings – academia, industry, and government – are coming together in ILSI symposia and workshops and communicating freely to solve problems of concern to them and to all of us. These forums – covering nutrition, food safety, and environmental health – have already proved to be effective mechanisms for gathering information, defining problems, and establishing research agendas to solve them."

■ Prof. G.A.H. Elton, formerly with the U.K. Ministry of Agriculture, Fisheries and Food, and currently vice chairman of the European Community Scientific Committee for Food, is a director of ILSI Europe.



A major focus of ILSI's Human Nutrition Institute is the role of nutrition in the aging process.

As health, safety, and environmental issues facing society in the next five to ten years continue to grow and become more complex, so will the cost of responding to them. In the years ahead, it will be even more important that society's limited resources be utilized in the most effective and economical manner. ILSI offers a unique and invaluable mechanism for accomplishing this. Our ability to pool resources, keep organizational costs low, avoid duplication, and draw on strengths from the private and public sectors worldwide has been demonstrated many times over.

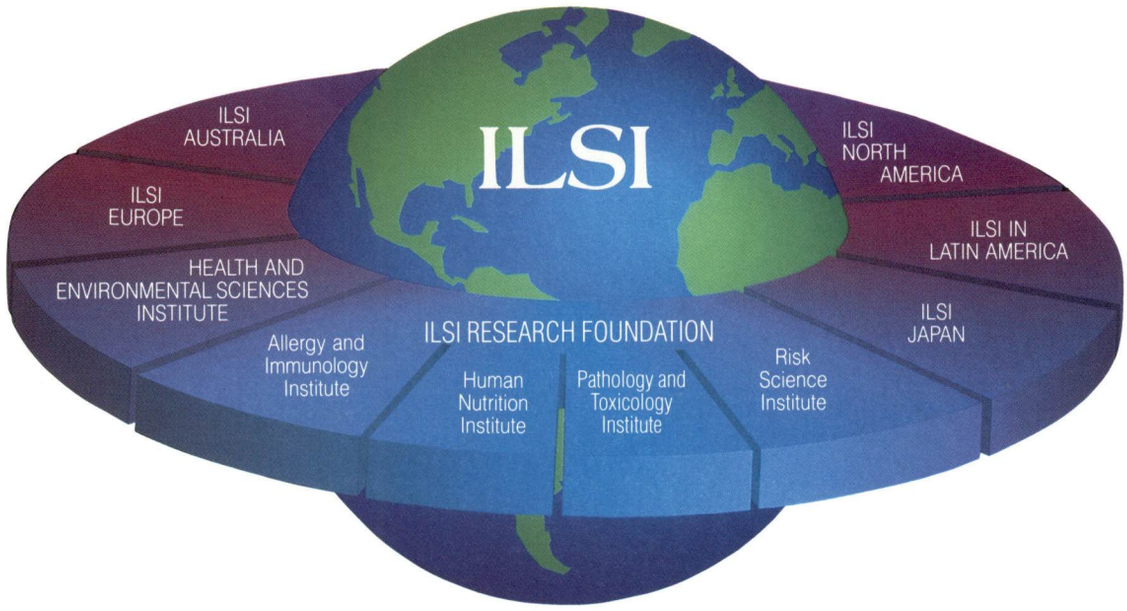
Our sights are set high. Our program of research has expanded through our Research Foundation. Efforts such as our Risk Science Institute, Human Nutrition Institute, Allergy and Immunology Institute, and Pathology and Toxicology Institute have extended our reach into a widening arena of health and safety concerns. To help support these expanding activities, we have embarked on an ambitious fund-raising campaign. Despite the progress we have made, there is so much more to be accomplished. The stakes – the health of mankind and the quality of life on our planet – demand nothing less than our maximum, concerted efforts.



Alex Malaspina, President

COMMITTEES AND WORKING GROUPS

Aging
Alcohol
Animal Testing
Antioxidant
Aspartame
Beverage Emulsifiers
Biotechnology
Caffeine
Child and Adolescent Nutrition
Colors
Designer Foods
Diet and Behavior
Dietary Fibers
Environmental Contaminants Coming from Food
Fat and Oil
Fatty Acids and Health
Food Additives
Food Contaminants Coming from the Environment
Food Microbiology
Fructose
Gross Nutrients
Light Products
Macronutrient Substitution
Microwave Ovens
Natural Toxins
Novel Foods
Nutrition and Aging
Oral Health
Packaging Materials
Proposition 65
Residues
Saccharin
Scientific Evaluation of Safety Factors
Toxicology



■ ILSI AUSTRALIA

Established in 1983, ILSI Australia provides a forum for the exchange of scientific information among the scientific, regulatory, and industrial sectors within Australia. ILSI Australia accomplishes this by sponsoring scientific research, conferences and symposia, and publications.

■ ILSI EUROPE

Established in December 1986, ILSI Europe has helped overcome traditional barriers to communication across national borders. It has grown rapidly as a forum in which representatives from industry, academia, and government can address health, safety, and nutrition issues of common concern. These issues are addressed by working groups and technical committees and through symposia, conferences, and publications.

■ HEALTH AND ENVIRONMENTAL SCIENCES INSTITUTE

Established in 1989, the ILSI Health and Environmental Sciences Institue provides an international forum through which the chemical, pharmaceutical, and petrochemical industries can stimulate and support scientific research and activities related to health and environmental issues of common concern.

■ ILSI RESEARCH FOUNDATION

Long-term research is guided by the four Institutes of the Research Foundation: the Allergy and Immunology Institute, the Human Nutrition Institute, the Pathology and Toxicology Institute and the Risk Science Institute,.

■ ILSI JAPAN

Established in 1981, ILSI Japan sponsors international conferences, lectures, meetings, and publications. Working groups address issues of interest to the members, the government, and the public.

■ ILSI IN LATIN AMERICA

ILSI branches have been established in three Latin American countries: Argentina (1990), Brazil (1990), and Mexico (1991) to provide a forum for scientists from government, academia, and industry to work together to resolve nutrition and food safety questions.

■ ILSI NORTH AMERICA

The North American branch of ILSI was established in January 1985 after the consolidation of the programs and activities of ILSI in North America with those of The Nutrition Foundation, Inc. The Nutrition Foundation, Inc., established in 1941, supported early research on amino acids, vitamins, mineral metabolism, and other topics in the science of nutrition. ILSI North America promotes scientific research and educational programs in nutrition, toxicology, and food and chemical safety.

Organization

The International Life Sciences Institute (ILSI) is a public, nonprofit foundation headquartered in Washington, D.C., with branches in Australia, Europe, Japan, Latin America, and North America, and a liaison office in China. ILSI is governed by an Assembly of Members, consisting of one representative from each of its member companies worldwide, and an elected Board of Trustees, with balanced representation from the private and public sectors.

ILSI was founded in 1978 in response to government and food industry concern over the need for more and better scientific and technical information on the safety of environmental chemicals and food ingredients. This original focus has since broadened into a wider concern with such issues as food-borne disease, the assessment of risk, nutrition and health issues, and pathology and toxicology issues. ILSI also expanded its educational role by sponsoring workshops and symposia for scientific investigators, industry representatives, and public officials, as well as by producing publications that have become primary reference source materials for practitioners in their respective fields.

ILSI's mission is not restricted to the industrialized world. ILSI administers programs that combat two nutritional deficiencies common in developing countries – nutritional anemia and vitamin A deficiency – and that promote information exchange and program effectiveness in these countries.

ILSI does not maintain laboratory facilities; rather, it sponsors scientific studies at major universities and research centers in the United States and elsewhere in the world. ILSI thus retains maximum flexibility in targeting its support to those projects and those scientists who can most appropriately address issues as they arise or appear likely to arise. This flexible structure has allowed ILSI to direct its resources as



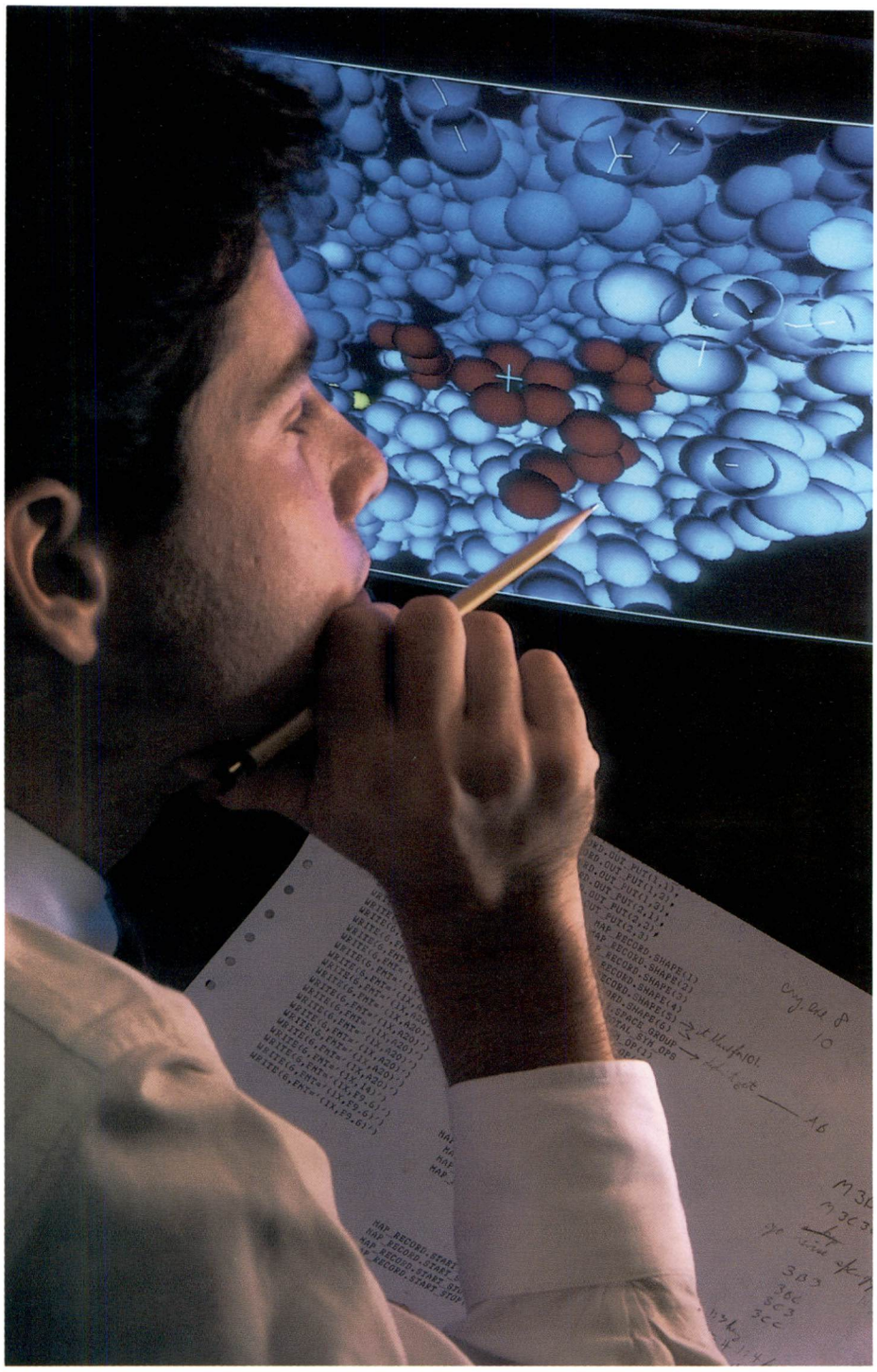
"This grant allowed me to conduct the pilot work that encompassed nutrient intake and body composition, including bone mass measurements, of a large population of women so that we can begin to more fully understand maximal bone mass.

"This is important because we do not have as yet well-documented preventive measures to reduce bone loss as women age. We are quite excited about the prospects that have emerged from this initial funding. Our results have already generated new funds and spawned additional studies."

■ MaryFran Sowers, Ph.D., School of Public Health, University of Michigan, is a recipient of an ILSI North America Future Leader Award.

ACCOMPLISHMENTS

Since its inception, ILSI has sponsored over $23 million of research resulting in more than 300 articles published in scientific journals. In addition, ILSI's own list of publications numbers more than 100, including a nutrition journal, several volumes in four monograph series, supplements to scientific journals, and brochures. Many of its publications have become important references on given topics. ILSI has also made major contributions to the improved understanding of pressing health and safety issues through the more than 130 workshops, conferences, and symposia it has held.



ILSI attracts talented young investigators to research in the toxicological and nutritional sciences.

needed and to support and respond swiftly to the latest advances or emerging public health issues. Flexibility and timeliness are key factors in ILSI's success.

Such flexibility enabled ILSI, in 1989, to establish an international Health and Environmental Sciences Institute that is addressing health and safety issues of concern to the chemical, pharmaceutical, and petrochemical industries including: mouse liver tumors, solid waste disposal, water quality, immunotoxicology, animal-to-human extrapolations, and international harmonization of safety testing guidelines.

During its first five years, ILSI conducted its activities through a variety of technical committees and working groups. These activities focused primarily on health and safety issues of immediate concern. As it became clear that the ultimate resolution of many of the most pressing health and safety issues required a longer-term, more comprehensive approach, ILSI launched an independently funded Research Foundation in 1984, followed a year later by the addition of the Risk Science Institute. The latter had its origins in the urging of Dr. Frank Press, president of the National Academy of Sciences, that ILSI establish an institute "in which first-class, long-term research is sponsored to reduce the uncertainties of risk assessment." ILSI is meeting that challenge.

The Research Foundation comprises four specialized institutes: the Risk Science Institute, the Allergy and Immunology Institute, the Human Nutrition Institute, and the Pathology and Toxicology Institute. These institutes are administered by the ILSI Board of Trustees, which is responsible for the overall management of the institutes and their budgets. Each institute has its own body of Scientific Advisors, which provides program oversight and direction. The long-term research agenda of the ILSI Research Foundation is guided by a Council of Scientific Advisors.



"In recent years, we in the United States have worried about our 'competitiveness' and we talk often about 'public-private' partnerships. ILSI is a jewel of an organization in this regard, addressing both of these issues long before either of them became fashionable. Because of ILSI's strong and outstanding membership, comprised of people from universities and private industry, it has been able to collectively study policy issues affecting foods and nutrition. The organization has also supported important research endeavors bridging the basic laboratory sciences with industrial concerns. In recent years, as issues affecting nutrition and food have had more international impact, ILSI has moved swiftly to deal with the barriers to successful and competitive international trade."

■ Dr. W. Ann Reynolds, chancellor, The City University of New York, is an ILSI North America trustee, a member of the Executive Committee, and vice president of communications of ILSI North America.



ILSI's flexible structure allows it to direct resources as needed and respond swiftly to recent developments or emerging issues.

Risk Science Institute

The goal of the Risk Science Institute is to develop improved methods for determining the potential risks of exposure to toxic chemicals and other hazardous agents. It accomplishes this by sponsoring a wide range of research activities, workshops, and training programs at locations in the United States and around the world. Praising ILSI's early work in risk assessment in 1984, Dr. Frank E. Young, then commissioner of the Food and Drug Administration, pointed out that an improved scientific base would lead to more objective decisions that are less vulnerable to shifts in political considerations and uninformed public opinion.

The Risk Science Institute has funded more than 30 research projects related both to improving the scientific basis for risk

assessment and to understanding how to communicate such information to risk managers and to the public. Among those studies are projects to evaluate the validity of assumptions used to determine risk, review current research findings and studies on risk assessment, study the mechanisms of carcinogenesis, improve epidemiology methods, and study species extrapolation issues in toxicity studies.

Since 1987, the Risk Science Institute, through a cooperative agreement with the Environmental Protection Agency, has conducted a series of workshops to identify research needs in critical areas of risk assessment. These workshops have addressed topics such as methods for assessing risks from indoor air pollution, estimating risk through extrapolation from one route of exposure to another, the relevance of animal studies to evaluate human cancer risk, and relative risks to children and adults exposed to chemical substances. The Risk Science Institute also sponsors workshops that address risk communication and regulatory risk assessment issues to advance public understanding of risk analysis.

Allergy and Immunology Institute

Established in 1989 to promote the study of adverse reactions to foods and food additives, the Allergy and Immunology Institute sponsors basic and clinical research as well as workshops to identify gaps in our current understanding of the mechanisms of allergic responses in humans, conferences to evaluate and interpret new and existing data, and publications to communicate current findings and formulate future research directions. Through these programs, the Allergy and Immunology Institute hopes to advance the understanding, diagnosis, and management of food allergies, thereby reducing the incidence of misdiagnosis and inappropriate elimination of foods from the diet.



"ILSI is important because it is an independent scientific organization that addresses topics of mutual interest and concern to industry, government, and academia. When these three sectors work together, problems are solved more effectively and the public is better served.

"The next five to ten years will bring scientific challenges even greater than those we have faced in the past. ILSI's ability to generate the necessary scientific data will be needed even more in the future if government, academia, and industry are to address these challenges."
■ Dr. Charles C. Leighton, senior vice president, Merck Sharp & Dohme, is a HESI trustee.



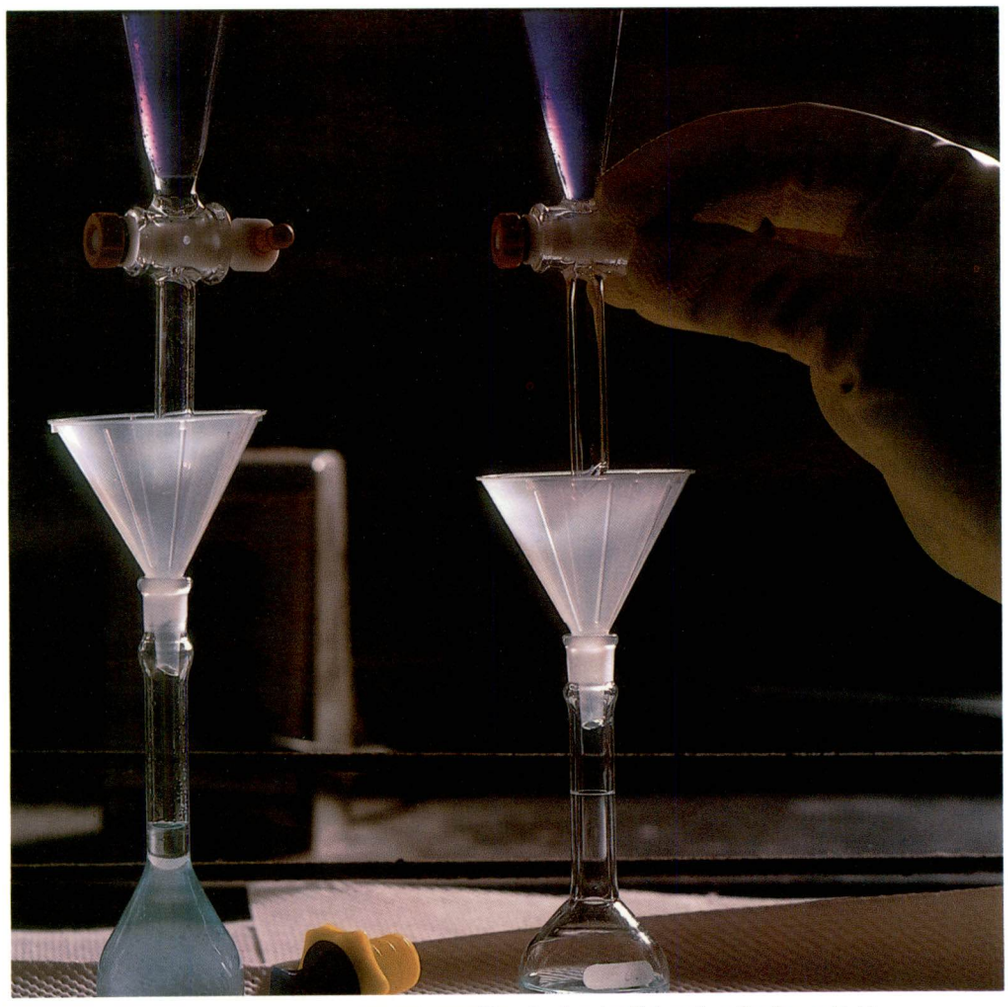
"Having been involved with ILSI since its inception, I look with pride and satisfaction at what it has accomplished in its first decade. ILSI has established an international network of scientists who can respond to many different kinds of challenges. The Institute provides a unique forum for scientific expertise within academia and industry to join together to answer important questions dealing with public safety as affected by foods and chemicals.

"ILSI has improved our understanding of important scientific issues and demonstrated how much science can achieve when cooperation among industry, academia, and government is actively promoted."

■ Professor Ulrich Mohr, Hannover Medical School, is a founding trustee, a vice president of ILSI and an advisor to the Pathology and Toxicology Institute.

Human Nutrition Institute

The Human Nutrition Institute was formed in 1989 to support research on the role of nutrition in the aging process, the role of nutrition in the prevention of cancer, current eating patterns and their relation to health, the physiology of complex carbohydrates, the interaction between nutrition and exercise, and better assessment of micronutrient deficiencies, as well as other nutrition issues of emerging public concern. Two international conferences in Marbella, Spain, and in Tokyo, Japan, have focused attention on the nutritional needs of an aging world population. An international conference in Atlanta, Georgia, discussed current research on nutrition and cancer.



ILSI's scientific efforts have earned it the respect and recognition of national and international bodies worldwide.

Pathology and Toxicology Institute

Since 1981, the Pathology and Toxicology Institute has supported publications and symposia in these areas. Standardization of classification and interpretation of animal lesions is promoted through the publication of a monograph series on the pathology of laboratory animals and sponsorship of histopathology seminars annually in Germany, Japan, and the United States.

Research Awards Program

In addition to overseeing its four institutes, the Research Foundation funds the work of young investigators doing innovative research. The Research Awards Program, integral to ILSI's programs and long-range goals, identifies promising researchers interested in applying innovative techniques from rapidly developing sciences, such as molecular biology and neurobiology, to questions of nutrition and toxicology. In this way, ILSI attracts talented young people to research in the toxicological and nutritional sciences and supports their research. The program, established in 1985, has provided three-year grants totaling $100,000 each to one to three investigators annually.

While the Research Foundation and its institutes focus on longer-term objectives, ILSI's branches worldwide work to resolve issues of more immediate concern. Through technical committees and working groups, the branches address questions that arise in such areas as food microbiology, packaging, oral health, diet and hypertension, fat and oil, alcohol, and food additives, including colors, saccharin, emulsifiers, antioxidants, and caffeine. ILSI's balanced approach to problem solving ensures that it can respond to current issues and questions facing industry or regulatory agencies, while mounting long-range, comprehensive studies and programs aimed at societal challenges and concerns.

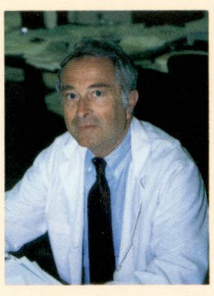


"Since its beginning, ILSI has made impressive progress in establishing industry/academic cooperation in various fields of the life sciences, including nutrition, pharmacology, biochemistry, microbiology, and biotechnology. By organizing and sponsoring international workshops and symposia, by publishing highly authoritative monographs on selected subjects, and by providing research fellowships to young scientists, ILSI has made important contributions to food and drug research, to toxicology and risk assessment, and to related areas of considerable current interest. As a scientist engaged for over 40 years primarily in basic research, I find my participation in various activities of ILSI highly meaningful and stimulating."

■ Prof. Dr. Lars Ernster, University of Stockholm, formerly a member of the Nobel Committee for Chemistry, is currently an ILSI trustee and member of the ILSI Executive Committee. He is also president of ILSI Europe.



"As recent advances and breakthroughs in the life sciences have made clear, scientific progress and improved public understanding depend increasingly on the collaborative efforts of researchers and institutions worldwide. The International Life Sciences Institute is a model for what can be achieved through cooperation and shared enterprise. Its potential for added impact in resolving some of the more vexing issues of human health and safety is unlimited. To play a role in ILSI's development and to participate in its continuing activities is an opportunity to share in the discoveries and advances it is helping to make possible. It has been, and remains, one of the most satisfying experiences of my career."



■ Dr. Louis Lasagna, dean, Sackler School of Graduate Biomedical Sciences, Tufts University, is chairman of ILSI and of ILSI-North America.

ILSI
Research
Foundation



As the barriers between nations recede, we have come to recognize that the health and environmental issues confronting us are common ones. The quality of the food we eat, the air we breathe, and the water we drink all affect the health and well-being of mankind.

Safeguarding these basic human needs requires the international, cooperative involvement of many different sectors of society. For this reason, the International Life Sciences Institute (ILSI) was established in 1978 to help improve public health and safety throughout the world.

ILSI is a public, nonprofit scientific foundation headquartered in Washington, D.C., with branches in Argentina, Australia, Brazil, Europe, Japan, Mexico, and North America. It is governed by an Assembly of Members, consisting of one representative from each of its more than 200 member corporations, and an elected Board of Trustees of renowned scientists from academia and industry, all of whom serve without pay.

Through the cooperative efforts of scientists in academia, government, and industry, ILSI advances the understanding and resolution of scientific problems in nutrition, toxicology, and food and environmental safety. Underlying all of ILSI's activities is the premise that sound scientific research is essential to the resolution of health and safety issues.

ILSI identifies and works to resolve these issues by stimulating and supporting both basic and applied research. ILSI-sponsored research is conducted around the world at universities and research centers with the best facilities and appropriate expertise. This allows ILSI to direct its resources as needed and to respond swiftly to emerging public health issues.

Recognizing that the timely evaluation and dissemination of current scientific research is critical to the resolution of health and safety issues, ILSI also sponsors educational programs. Through its workshops, international conferences, and publications, ILSI communicates research results to the international community to promote more informed decision making. Its many efforts and successes have enabled ILSI to work collaboratively with major national and international organizations. It is affiliated with the World Health Organization as a nongovernmental organization (NGO), has specialized consultative status with the Food and Agriculture Organization of the United Nations, and has established an ILSI liaison office in China with the Chinese Academy of Preventive Medicine.

Now in its second decade, ILSI is recognized as a major contributor to improved public health and safety throughout the world.

Research Foundation

ILSI is structured so that its seven regional branches address current challenges requiring immediate action. To complement this effort, the ILSI Research Foundation was established in the belief that a long-range, comprehensive approach was also required if nutrition, health, and safety issues are to be better understood and ultimately resolved.

The Research Foundation, guided by its Council of Scientific Advisors, identifies issues needing further study. The foundation is supported solely by contributions from other foundations, government grants, cooperative agreements, individuals, and industry.

The foundation administers a Research Awards Program to support young investigators who apply innovative techniques from rapidly developing sciences (molecular biology, genetic engineering, immunology, and neurobiology) to advance our understanding of human health, nutrition, and food safety.

The major focus of the Research Foundation's activities, however, lies in its four institutes, which reflect the scope of the foundation's mission: the Allergy and Immunology Institute, Human Nutrition Institute, Pathology and Toxicology Institute, and Risk Science Institute. These institutes support research and educational programs that are long term in nature and international in reach.

Although the problem of adverse reactions to foods is of concern to the public and of great interest to the medical profession and the food industry, only a few universities and medical centers conduct basic research on food allergies.



Allergy and Immunology Institute

The Allergy and Immunology Institute (AII) was established to provide a focus for scientific activity in the area of food-related allergies. It sponsors programs of its own and collaborates with other scientific organizations and professional societies, and in so doing stimulates broader efforts.

Among AII's many initiatives is the sponsorship of basic and clinical research to add to the scientific data base. Projects include "Food Allergy Prevalence," a study of the prevalence of food allergies as perceived by the general population; "Respiratory Hyperreactivity to Ingestants," a study to determine the prevalence or mechanisms of sensitivity as related to respiratory disease; and "Immunotherapy of Allergic Reactions to Food," a study of the effect of immunotherapy as a safe and efficacious intervention in individuals with severe and potentially life-threatening reactions to food.

AII also supports workshops and conferences to identify gaps in our current understanding of food allergies and to evaluate existing and new data. One AII collaborative effort, a symposium on "Nature and Mechanisms of



Human Nutrition Institute

of these recommended dietary changes and will sponsor workshops on the topic.

In addition, HNI is funding a study to analyze

Food Allergies and Related Diseases," was presented at an annual meeting of the Institute of Food

the currently available data on dietary intake within the United States to help clarify what Americans are actually eating. This information will be valuable to industry for new product development and to the public for making appropriate food choices.

The institute functions as an independently funded program within ILSI's Research Foundation. Responsibility for planning and directing HNI's research and educational programs rests with its scientific advisors, who are drawn from the major disciplines related to nutritional sciences.

With health costs escalating, it will become imperative in the years ahead for scientists and the public to better understand the role of diet in promoting and maintaining health. Through its programs, HNI is in the forefront of this important effort.

As the governments of various countries work to harmonize food and chemical regulations, it is critical that testing procedures and the classification and interpretation of their results become standardized worldwide.

The Pathology and Toxicology Institute was founded to address this need. Through its worldwide histopathology seminars and its comprehensive pathology and toxicology monographs, the institute promotes the adoption of standardized testing criteria and interpretations in support of international harmonization.

Seminars on the histopathology of laboratory animals are held each year in Germany, Japan, and the United States. Attended by scientists from government, academia, and industry, these laboratory seminars promote international harmonization and advance the proper classification and interpretation of lesions in safety evaluation studies.

Complementing the histopathology seminars are the Monographs on the Pathology of Laboratory Animals. These reference volumes promote the use of internationally accepted terminology, evaluate the relevance of data derived from animal studies for predicting effects in humans, and refine diagnostic criteria.

The first ten volumes of the monograph series focus primarily on rodents and take an organ-system approach to the study of spontaneous and induced lesions. The final two volumes cover nonhuman primates and provide succinct descriptions of the present knowledge concerning spontaneous and induced lesions. The monograph series, now being revised and updated, has become internationally recognized as the definitive reference work in the field.

A new series, Monographs on the Pathology of Aging Animals, will consolidate current knowledge on pathological alterations related to the aging process in laboratory animals.

Pathologists and toxicologists in industrial, academic, and government settings worldwide are the primary audience for both monograph series and the seminars. This includes scientists employed by pharmaceutical and chemical manufacturers, experimental biologists working with various species of animals, and regulatory decision makers.

The Pathology and Toxicology Institute also supports publication of a special registry of nomenclature of tumors of the rat. This project was undertaken in cooperation with the International Agency for Research on Cancer of the World Health Organization and with the Fraunhofer Institute of Toxicology and Aerosol Research. This registry prepares and publishes computer-oriented compilations of nomenclature and criteria for

preneoplastic lesions and tumors of the rat. Resulting publications will consist of a series of fascicles, each covering an organ system.

The institute has also joined with WHO's International Agency for Research on Cancer in the sponsorship of the second edition of the series Pathology of Tumours in Laboratory Animals. The goal of this series is to facilitate communication and the comparability of experimental data obtained in different laboratories.

Through its monograph and seminar series, the Pathology and Toxicology Institute is contributing to increased international understanding and harmonization of food and chemical safety testing.

Among the major, but least recognized, risks we face as a society is our inability to determine with certainty how to assess the potential health hazards in the foods we eat, the products we use, and the chemicals we are exposed to in our homes, our workplaces, and our environment. Recognizing this problem, Dr. Frank Press, president of the National Academy of Sciences, urged ILSI to take up the challenge of improving the scientific basis of risk assessment. In response, ILSI established the Risk Science Institute (RSI).

RSI brings together scientists from academia, industry, and government to find solutions to the critical scientific questions of risk and to support research in risk identification, assessment, and management. In doing so, RSI promotes sound public health decision making related to the protection of the public from the adverse effects of environmental chemicals.

Toward this goal, RSI sponsors a wide range of research on improving methods for determining and estimating risks from carcinogens and other potential hazards. Since its founding, RSI has supported more than 30 investigator-initiated research projects resulting in 27 articles published in the scientific literature.

RSI also funds several educational and public information programs aimed at improving the understanding of risk assessment. For example, RSI supports a postdoctoral fellowship at the National Institute of Environmental Health Sciences, cosponsored with the National Safety Council a major conference on "Regulating Risk: The Science and Politics of Risk," and supports a postdoctoral fellow at Johns Hopkins University's School of Public Health to study current understanding and perception of human risks.

The institute has also joined with the Environmental Protection Agency (EPA) in a cooperative agreement to conduct a series of workshops to identify research needs in critical areas of risk assessment. Workshops have addressed methods for assessing risks from indoor air pollution, estimation of risk by extrapolating from one route of exposure to another, relevance of animal studies to evaluate human cancer risk, and relative risks of children and adults exposed to chemical substances.

RSI's Carcinogenicity Working Groups bring together experts from the private sector, academia, and regulatory agencies to define scientific issues, design potential research protocols, sponsor or facilitate research, and disseminate information. The working groups are examining mechanisms of carcinogenesis and interpretation of animal bioassay tests for human health risks as they relate to peroxisome proliferation, thyroid tumors, mouse liver tumors, rodent forestomach tumors, and cancer dose-response. Partial support for this program is provided by EPA and the ILSI Health and Environmental Sciences Institute.

One of RSI's most successful public information projects is its monthly seminar series, cosponsored with the Society for Risk Analysis and the Brookings Institution, highlighting new developments in the science underlying risk assessment.

RSI has also played a pivotal role in cosponsoring a series of regional risk assess-

ment workshops for state public health officials throughout the United States. Workshop attendees learn about the basics of risk assessment, the state of the science of risk assessment, and the technical and societal issues that often dictate the way risk is interpreted and managed.

Responsibility for planning and directing RSI's research and educational programs rests with its scientific advisors and scientific staff. The scientific advisors, who are internationally recognized authorities in disciplines involving risk assessment, establish RSI's research priorities each year and solicit and review proposals from qualified researchers around the world.

In the years since its founding, RSI has demonstrated its value as an independent organization capable of enlisting the support and cooperation of industry, federal and state agencies, the academic community, foundations, and private citizens in improving the scientific understanding of the risks we face in our daily lives.

The field of risk assessment is still in its infancy and much remains to be done. RSI is poised to help lead the way to greater understanding.

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Although the problem of adverse reactions to foods is of concern to the public and of great interest to the medical profession and the food industry, only a few universities and medical centers conduct basic research on food allergies.



Allergy and Immunology Institute

The Allergy and Immunology Institute (AII) was established to provide a focus for scientific activity in the area of food-related allergies. It sponsors programs of its own and collaborates with other scientific organizations and professional societies, and in so doing stimulates broader efforts.

Among AII's many initiatives is the sponsorship of basic and clinical research to add to the scientific data base. Projects include "Food Allergy Prevalence," a study of the prevalence of food allergies as perceived by the general population; "Respiratory Hyperreactivity to Ingestants," a study to determine the prevalence or mechanisms of sensitivity as related to respiratory disease; and "Immunotherapy of Allergic Reactions to Food," a study of the effect of immunotherapy as a safe and efficacious intervention in individuals with severe and potentially life-threatening reactions to food.

AII also supports workshops and conferences to identify gaps in our current understanding of food allergies and to evaluate existing and new data. One AII collaborative effort, a symposium on "Nature and Mechanisms of

Food Allergies and Related Diseases," was presented at an annual meeting of the Institute of Food Technologists.

AII is also collaborating with the American Academy of Allergy and Immunology on a symposium on "Food Allergy and the Lung." Basic concepts and diagnostic evaluations of asthma and airway hyperreactivity will be explored, as will food allergen composition and appropriate diagnostic tests.

AII's many programs have the potential to advance the understanding, diagnosis, and management of food allergies, and thereby reduce misdiagnosis and the inappropriate elimination of foods from the diet.

The institute is an independently funded entity within the ILSI Research Foundation. It relies on its scientific advisors, including two scientists from the National Institute of Allergy and Infectious Diseases, to plan and direct its research and educational programs. These advisors are medically trained scientists with expertise in immunology, allergy, internal medicine, and pediatrics.

Food allergies cannot be cured at present, but most can be identified and managed through scientifically based research, diagnosis, and education. The Allergy and Immunology Institute is positioned to take a leadership role in this important area.

Public awareness of diet and nutrition and their role in health maintenance and disease prevention has probably never been higher than it is today. This heightened awareness is reflected in dietary recommendations from governments around the world. The fact that many questions relating to the scientific basis for these nutrition recommendations remain unanswered led ILSI to establish the Human Nutrition Institute (HNI).

HNI serves as a catalyst in bringing together scientists from the public and private sectors to address and resolve nutrition issues involving food metabolism and the relationship between diet and disease. HNI improves the understanding of nutrition and its impact on health by funding research in critical areas and by helping to stimulate additional funding from other sources.

Human Nutrition Institute

A major HNI focus is the relationship between nutrition and aging, which was explored in two HNI-supported international meetings and is being studied by HNI-funded research fellows.

HNI also coordinates the efforts of national and international groups working to combat deficiencies of vitamin A, iron, and iodine. Deficiencies of these micronutrients affect a large proportion of the world's population, especially young children, and frequently result in mental or physical impairments and even death. Funded in part by the U.S. Agency for International Development, these programs publish and disseminate widely within developing countries the latest available scientific information regarding these deficiencies. Through the information and coordination provided by these programs, more efficient services are provided to those in need.

Another HNI effort stems from recommendations made by public health agencies in many countries to reduce fat and increase complex carbohydrate consumption. Because little is known scientifically about the physiological effects of such a major shift in diet, HNI has initiated basic research studies to examine the implications of these recommended dietary changes and will sponsor workshops on the topic.

In addition, HNI is funding a study to analyze

the currently available data on dietary intake within the United States to help clarify what Americans are actually eating. This information will be valuable to industry for new product development and to the public for making appropriate food choices.

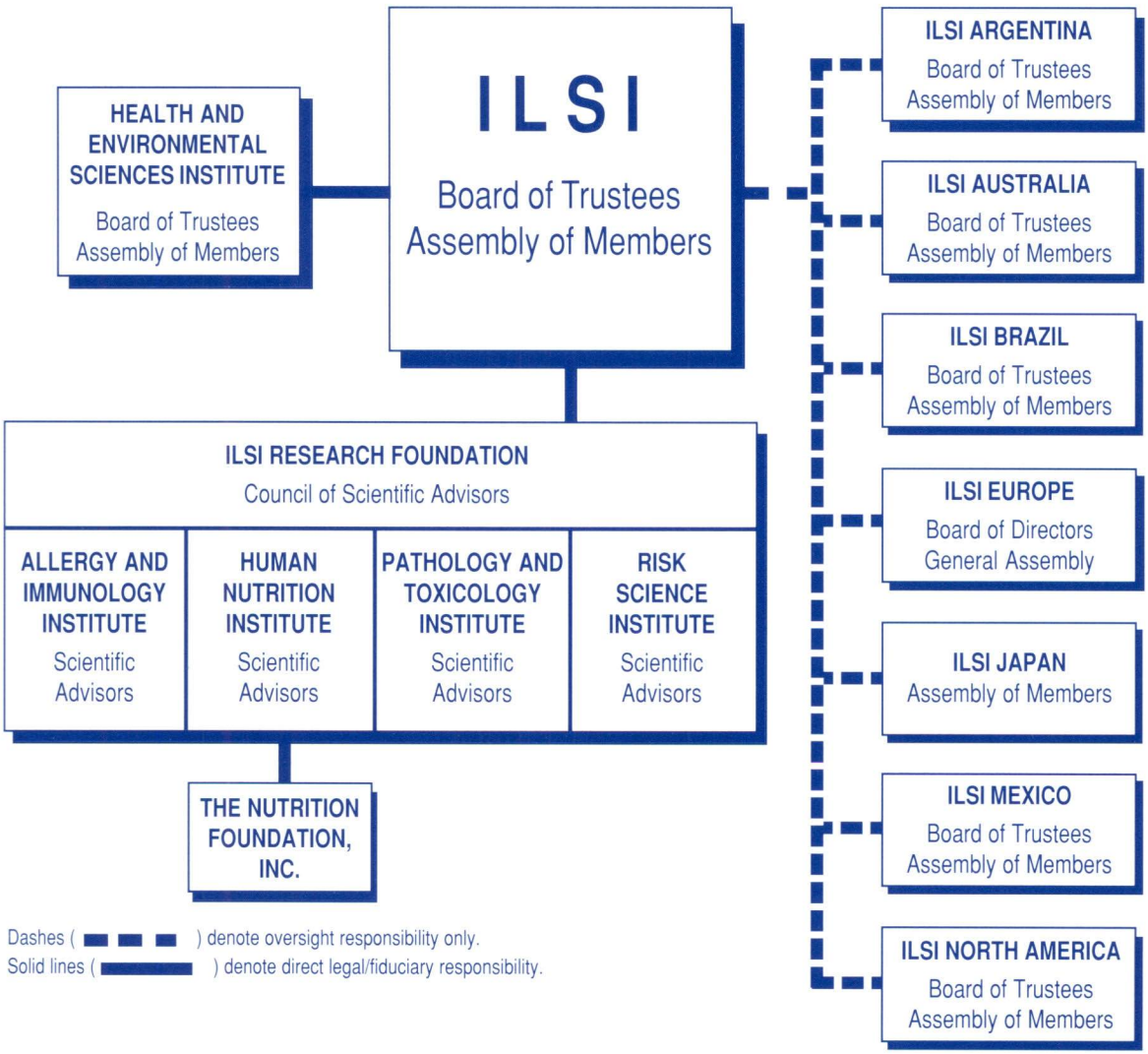
The institute functions as an independently funded program within ILSI's Research Foundation. Responsibility for planning and directing HNI's research and educational programs rests with its scientific advisors, who are drawn from the major disciplines related to nutritional sciences.

With health costs escalating, it will become imperative in the years ahead for scientists and the public to better understand the role of diet in promoting and maintaining health. Through its programs, HNI is in the forefront of this important effort.

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P R O G R A M

FIRST INTERNATIONAL CONFERENCE ON THE

Safety of Water Disinfection

Balancing Chemical & Microbial Risks

August 31 – September 3, 1992
Washington, D.C.

Sponsors

International Life Sciences Institute (ILSI)

Pan American Health Organization

U.S. Environmental Protection Agency

U.S. Food and Drug Administration

World Health Organization

American Water Works Association

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(Please fold here and affix tape to close sides)

AFFIX
FIRST
CLASS
POSTAGE

JW MARRIOTT HOTEL
Reservations Department
1331 Pennsylvania Avenue, NW
Washington, DC 20004 USA

FIRST INTERNATIONAL CONFERENCE ON THE

Safety of Water Disinfection

Balancing Chemical & Microbial Risks



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FIRST INTERNATIONAL CONFERENCE ON THE

Safety of Water Disinfection
Balancing Chemical & Microbial Risks

August 31– September 3, 1992
JW Marriott Hotel
Washington, D.C.

Introduction

The potential health risks associated with long-term exposure to the chemical by-products of water disinfection processes have gained wide publicity and raised concerns among public health officials, industry, and the general public about the safety of drinking water. Water quality is influenced by a wide range of natural and human activities, and it is estimated that despite major improvements in developed countries, the problem of bacterial pollution will become more severe in the next decade in developing countries. Thus, there is a need for scientific assessments of water quality on a worldwide basis as well as a scientific review of the approaches and methods needed to balance the microbial and chemical risks related to drinking water.

This conference will provide a global forum for discussion of current scientific information on water disinfection practices and procedures and the benefits and potential health risks of water disinfection practices.

Conference Overview

This three and one-half day conference featuring a distinguished group of international experts will review the current science on water disinfection practices and procedures and provide opportunities for discussion through panels, poster sessions, and informal gatherings. The public health benefits of water disinfection will be discussed in the context of current concerns about pathogens in water and potential risks related to disinfection by-products in both developed and developing countries. The development of a decision tree for the management of risks associated with water quality will be a major conference objective. A review of several case studies will provide a practical approach for comparing different types of risks. The conference will provide both scientific information and practical guidance to participants.

Hotel Reservation Form

FIRST INTERNATIONAL CONFERENCE ON THE

Safety of Water Disinfection
Balancing Chemical & Microbial Risks

August 31– September 3, 1992, Washington, D.C.

Tear out this form and return to JW Marriott

JW MARRIOTT HOTEL
1331 Pennsylvania Avenue, NW
Washington, DC 20004 USA
Phone 202-393-2000 or 800-228-9290

The JW Marriott is pleased you have chosen us for your upcoming visit. Our staff looks forward to serving you in fine Washington tradition.

In guaranteeing your reservation we require that you either 1) enclose a check or money order covering the first night's stay or 2) send us the entire number of your credit card: American Express, Diners Club, VISA/Bank Americard, Mastercard, or Carte Blanche. Don't forget the expiration date and your signature.

The JW Marriott regrets that it cannot hold your reservation without a guarantee with one of the above. Deposits will be refunded only if cancellation notification is given at least 24 hours prior to arrival.

Cut-off date is July 31, 1992

Prof./Dr./Mr./Mrs./Ms _____

Street _____

City, State _____

Zip or Postal Code and Country _____

Telephone _____ Fax _____

Arrival on _____ (day) (date) Departure on _____ (day) (date)

Flat Rate US$97/night, single or double

Please reserve ____ single or ____ double for ____ persons.

Names of persons sharing accommodations: _____

_____

Payment Method

☐ Check enclosed

☐ AX ☐ DC ☐ VS ☐ MC ☐ CB Expiration date _____

Credit Card # _____

I authorize the JW Marriott to charge my account for one night's deposit and all applicable taxes.

Signature _____

Conference Registration *(continued)*

Registration fees:

	Before August 1	*After August 1*
Government/Academia	US$200	US$275
Industry	US$450	US$575
Spouse/Guest (for receptions only)	US$50	US$75

I will be accompanied by: _____

(Please give complete name for badge)

☐ Please check this box if you will require Spanish interpretation.

☐ Please check this box if you have special requirements (such as wheelchair-accessible room, interpreter for the deaf, etc.).

Please give specific details _____

_____

Reception

☐ I ☐ We plan to attend the welcome reception on Monday evening.

☐ I ☐ We plan to attend the poster session and reception on Tuesday evening.

Send completed registration form and payment to:

Ms. Diane Dalisera
International Life Sciences Institute
1126 Sixteenth Street, N.W.
Washington, D.C. 20036 USA

Conference Objectives

- ❑ Foster global communication among the technical disciplines involved in water disinfection
- ❑ Provide a forum to discuss current and future issues in water disinfection, quality, and safety
- ❑ Develop a decision tree for the management of risks associated with water quality
- ❑ Provide a practical approach for comparing different types of risks
- ❑ Identify knowledge gaps and research needs

Who Should Attend

This conference should be of interest and benefit to scientists, public health officials, decision makers, and managers from academia, international agencies, government, nongovernmental organizations, the private sector, and other expert groups and individuals concerned with water quality and disinfection.

Location

Washington, D.C., the capital city of the United States, features colorful neighborhoods, spacious parks, wide avenues, majestic monuments, intriguing museums, and unexcelled restaurants, nightclubs, and theaters. Some of the city's world-famous attractions include the Smithsonian Institution Museums, Arlington National Cemetery, the Library of Congress, the Kennedy Center for the Performing Arts, and the White House.

The conference will be held at the JW Marriott Hotel at Pennsylvania Avenue and 14th Street in downtown Washington, D.C., only two blocks from the White House and with easy access to public transportation, shopping, and local attractions.

Language

The official language of the conference is English. Simultaneous interpretation into Spanish will also be available.

Proceedings

The conference proceedings of platform presentations and panel discussions will be published as a monograph.

Conference at a Glance

MONDAY August 31	TUESDAY September 1	WEDNESDAY September 2	THURSDAY September 3
Registration 1000-1300	Registration 0700-0830	**Session 4** *Disinfectants and Disinfection By-products in Drinking Water* 0830-1230	**Session 7** *Case Studies: Experiences in Risk Management* 0830-1150
	Session 2 *Pathogenic Contaminants in Drinking Water* 0830-1200		
	Lunch 1200-1330	Lunch 1230-1400	Lunch 1150-1330
Welcome and Official Opening *Global Perspectives: Developed and Developing Countries* 1300-1415	**Session 3** *Treatments for Control of Pathogenic Contaminants in Drinking Water* 1330-1700	**Session 5** *Treatments for Control of Water Disinfection By-products* 1400-1600	**Session 8** *Balancing the Risks* 1330-1600
Session 1 *Overview: Conference Perspectives* 1415-1700		**Session 6** *Characterization and Quantification of Risk* 1600-1800	Closing Remarks 1600-1630
Welcome Reception 1700-1800	Poster Session and Reception 1730-1930		Adjournment 1630

Conference Registration

FIRST INTERNATIONAL CONFERENCE ON THE

Safety of Water Disinfection

Balancing Chemical & Microbial Risks

August 31– September 3, 1992, Washington, D.C.

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Please Print or Type

Prof./Dr./Mr./Mrs./Ms. _____

Preferred name for badge _____

Title _____

Company/Organization _____

Street (mailing address) _____

City, State _____

Zip or Postal Code and Country _____

Telephone _____

Fax _____

Telex _____

The registration fee includes attendance at all conference sessions, conference materials, two receptions, three lunches, and all refreshment breaks. You are on your own for all other meals.

All checks or money orders should be made payable (in U.S. dollars only) to the INTERNATIONAL LIFE SCIENCES INSTITUTE (ILSI). All checks must be drawn on, or payable through, a U.S. bank. Refunds (less a US$25 handling fee and applicable bank charges) will be made for cancellations received in writing before July 31, 1992. No refunds of the registration fee will be made after this date. **All registration fees must be paid in U.S. dollars.**

Registration form continued on back

Monday, August 31

1300 **Welcome**
Dr. Alex Malaspina, International Life Sciences Institute

1315 **Opening Address**
To be announced

1330 **Global Perspectives: Developed and Developing Countries**
United States *To be announced*
Pan America *To be announced, Pan American Health Organization*
Africa *Dr. Paul Taylor, Zimbabwe*

SESSION 1: OVERVIEW: CONFERENCE PERSPECTIVES

General background on water quality issues will be presented from a global and public health perspective and a decision tree will be proposed for managing risks in drinking water.

1415 **Introductions**
Session Chair: *Mr. J.R. Hickman, Canada*
Vice Chair: *Dr. George C. Becking, World Health Organization*

1430 **Global Issues from a Public Health Perspective**
Dr. Daniel A. Okun, United States

1500 **Break**

1530 **Proposed Decision Tree for Management of Risks in Drinking Water: Considerations for Health and Socioeconomic Factors**
Mr. Stig Regli, United States

1600 **Panel Discussion**

1700 **Welcome Reception**

SESSION 2: PATHOGENIC CONTAMINANTS IN DRINKING WATER

The prevalence of disease and the levels and sources of pathogens in drinking water will be examined, including a description of the analytical methods used to assess exposure to pathogens. The focus will be on bacteria, viruses, and protozoa.

0830 **Introductions**
Session Chair: *Dr. Willie Grabow, South Africa*
Vice Chair: *Mr. Edwin E. Geldreich, United States*

0840 **Bacterial Levels and Sources: Prevalence of Disease**
Dr. Betty H. Olson, United States

0905 **Viral Levels and Sources: Prevalence of Disease**
Dr. Pierre Payment, Canada

0930 **Protozoal Levels and Sources: Prevalence of Disease**
Dr. Joan B. Rose, United States

0955 **Break**

1030 **Methods to Assess Exposure to Pathogens**
Dr. Arie H. Havelaar, The Netherlands

1055 **Integration of Methodologies for Assessing Human Health Risks**
Dr. Charles P. Gerba, United States

1120 **Panel Discussion**

1200 **Lunch**

Poster Session Application

FIRST INTERNATIONAL CONFERENCE ON THE

Safety of Water Disinfection

Balancing Chemical & Microbial Risks

August 31– September 3, 1992, Washington, D.C.

POSTER APPLICATION DEADLINE JUNE 15, 1992

Please Print or Type

Title of Poster/Abstract _____

_____

_____

_____

_____

_____

Presenter Information

Name _____
(underscore family name)

Degrees _____

Title _____

Company/Organization _____

Mailing Address _____

City, State _____

Zip or Postal Code and Country _____

Telephone _____

Fax _____

Telex _____

Return this form with your abstract no later than **June 15, 1992**, to:

SWD Poster Session Committee
International Life Sciences Institute
1126 Sixteenth Street, N.W.
Washington, D.C. 20036 USA

SESSION 3: TREATMENTS FOR CONTROL OF PATHOGENIC CONTAMINANTS IN DRINKING WATER

Methods will be explored for controlling pathogens in water sources and distribution systems, including economic and technological considerations.

1330 **Introductions**
Session Chair: *Dr. Mark D. Sobsey, United States*
Vice Chair: *Dr. Martin S. Favero, United States*

1340 **Treatments to Address Source Water Concerns: Bacteria and Viruses**
Dr. Houssain Abouzaid, Morocco

1405 **Treatments to Address Source Water Concerns: Protozoa**
Dr. Mark W. LeChevallier, United States

1430 **Importance and Assessment of the Biological Stability of Drinking Water**
Dr. D. van der Kooij, The Netherlands

1455 **Break**

1530 **Appropriate Technology—Myth or Reality: Lessons from Successes and Failures**
Dr. Jan Teun Visscher, The Netherlands

1555 **Economic Considerations**
To be announced

1620 **Panel Discussion**

1730 **Poster Session and Reception**

SESSION 4: DISINFECTANTS AND DISINFECTION BY-PRODUCTS IN DRINKING WATER

The chemical identity, characterization, and toxicological endpoints of disinfectants and disinfection by-products will be discussed, and there will be descriptions of how human exposures are monitored, and how predictive modeling methods are constructed and used.

0830 **Introductions**
Session Chair: *Dr. William H. Glaze, United States*
Vice Chair: *Ms. M. E. (Bette) Meek, Canada*

0840 **Formation and Characterization**
Dr. Philip C. Singer, United States

0905 **Analytical Methods for Disinfectants and Disinfection By-products**
Dr. Gilbert Gordon, United States

0930 **Toxicology of Disinfectants and Disinfection By-products**
Dr. Richard J. Bull, United States

0955 **Break**

1030 **Occurrence and Exposures to Disinfectants and Disinfection By-products**
Dr. Robert L. Jolley, United States

1055 **Epidemiological Studies of Disinfectants and Disinfection By-products**
Mr. Gunther F. Craun, United States

1120 **Predictive Modeling for Uptake and Tissue Distribution from Human Exposures**
Dr. Jerry N. Blancato, United States

1145 **Panel Discussion**

1230 **Lunch**

Follow these instructions carefully to have your poster presentation considered by the poster session committee.

1. Type the abstract on plain white paper. The body of the abstract should be typed within a block no larger than 6 inches (15 cm) wide by 8 inches (20 cm) deep.
2. Use letter-quality type.
3. Center the title of the poster, the first and last name of the author(s), and the affiliation and address of the author(s) on separate lines. The title should be brief and descriptive.
4. Skip 2 lines before beginning the body of the abstract.
5. Indent each paragraph 5 spaces.
6. The body of the abstract should contain 1) an introductory sentence(s) explaining the reason for the work and its scope, 2) a brief statement of pertinent experimental methods, 3) a summary of results, and 4) conclusions. Avoid phrases such as "the work will be presented." Define abbreviations and acronyms. Any special symbols that are not on your typewriter or word processor must be neatly drawn by hand in **black** ink.
7. Proofread the abstract carefully. If accepted, it will be reproduced in the conference materials without retyping.
8. Complete the Poster Session Application form that follows and return it with your abstract.
9. Mail application materials to SWD Poster Session Committee, International Life Sciences Institute, 1126 Sixteenth Street, N.W., Washington, D.C. 20036, USA, **postmarked no later than June 15, 1992.** (If your abstract and form are sent by telefax, the originals must be sent to the ILSI office for receipt no later than June 20, 1992.)
10. Submission of an abstract and application form for a poster presentation does not guarantee acceptance by the poster session committee. Because space may be limited, those poster presentations most closely related to the scope and purpose of the conference will be selected first. You will be notified by July 15, 1992, concerning the status of your poster. If you have questions about the instructions or procedures, please contact Ms. Diane Dalisera, Conference Coordinator, International Life Sciences Institute, 1126 Sixteenth Street, N.W., Washington, D.C. 20036, USA, Telephone 202-659-0074, Fax 202-659-3859, Telex 6814107 NUFOUND.

Poster Session

To further discussion and examination of topics related to water quality and disinfection, interested investigators are encouraged to submit abstracts for consideration as poster presentations. Applications for poster presentations are now being accepted (see pages 18-19 for instructions and application form). **Applications will be accepted until June 15, 1992.**

The poster session will be held on Tuesday evening, September 1, with set-up on Monday evening. Acceptance of an abstract by the poster session committee obligates the author(s) to register for the conference and present the poster or provide a poster that can be presented by a substitute registrant chosen by the author(s).

Hotel Accommodations

A block of rooms is being held at the JW Marriott Hotel until July 31, 1992, at a special rate of US$97/night single or double including applicable city taxes. The special rate will be available two days before and two days after the conference. Please complete the hotel reservation form at the back of this brochure and mail it directly to the hotel with your deposit. If you make reservations by phone (202-393-2000 or 800-228-9290), be sure to mention that you are attending the ILSI Safety of Water Disinfection Conference to receive the special rate.

Please note that the cut-off date is July 31, 1992. After this date, the hotel will take reservations only as space permits at the conference rate.

For More Information

For additional information about the conference, contact:

Ms. Diane Dalisera, Conference Coordinator
International Life Sciences Institute (ILSI)
1126 Sixteenth Street, N.W.
Washington, D.C. 20036 USA
Telephone 202-659-0074, Fax 202-659-3859
Telex 6814107 NUFOUND

SESSION 5: TREATMENTS FOR CONTROL OF WATER DISINFECTION BY-PRODUCTS

Treatment types and options will be explored encompassing economic and technological factors.

1400 **Introductions**
Session Chair: *Dr. James M. Symons, United States*
Vice Chair: *Dr. Peter Werner, Germany*

1410 **Treatment Types and Options**
Dr. R. Rhodes Trussell, United States

1435 **Economic and Technological Considerations**
Dr. Robert M. Clark, United States

1500 **Panel Discussion**

1530 **Break**

SESSION 6: CHARACTERIZATION AND QUANTIFICATION OF RISK

The uncertainties associated with dose-response and exposure assessments, data gaps, and data quality issues, as well as the methods for quantifying risks, will be addressed.

1600 **Introductions**
Session Chair: *Dr. Richard J. Bull, United States*
Vice Chair: *Dr. Jerzy A. Sokal, Poland*

1610 **Quantifying Microbiological Risks**
Dr. Charles N. Haas, United States

1635 **Quantifying Risks from Toxicological Studies**
Dr. Curtis D. Klaassen, United States

1700 **Quantifying Chemical Risks from Epidemiology Studies**
Dr. Patricia Murphy, United States

1725 **Panel Discussion**

SESSION 7: CASE STUDIES: EXPERIENCES IN RISK MANAGEMENT

Reports from the United States, Canada, Latin America, and China will provide data and information on managing risks from a regional and national perspective.

0830 **Introductions**
Co-chairs: *Dr. Thomas A. Burke, United States*
Mr. Fred M. Reiff, Pan American Health Organization

0840 **The Peruvian Cholera Epidemic and the Role of Chlorination in Its Control and Prevention**
Dr. Eduardo Salazar-Lindo, Peru

0905 **Appropriate Technology for Reduction of Biological Contaminants and Trihalomethane Precursors**
Dr. Gerardo Galvis, Colombia

0930 **California Approach for Managing Risks of Water Disinfectants and Disinfection By-products**
Dr. Joseph Brown, United States

0955 **Break**

1035 **Pennsylvania's Approach for Managing Risks of Water Disinfectants and Disinfection By-products**
Mr. Frederick A. Marrocco, United States

1100 **Managing Water Quality After a Natural Disaster**
Dr. Kan Xuegui, People's Republic of China

1125 **Conventional and Alternative Treatment to Increase Microbiological Quality and Reduce Disinfection By-product Formation: The Laval Experience (Canada)**
Dr. Michèle Prévost, Canada

1150 **Lunch**

Registration

All conference sessions will be held at the JW Marriott Hotel, 1331 Pennsylvania Avenue, N.W., Washington, D.C. Please complete the registration form (pages 21-22) and mail it with your registration fee (payable in U.S. dollars) by **July 31, 1992**. On-site registrations will be accepted only as space permits.

The conference registration desk will be open between 1000 and 1300 on Monday, August 31, and again from 0700 to 0830 on Tuesday, September 1.

Registration fees:	*Before August 1*	*After August 1*
Government/academia	US$200	US$275
Industry	US$450	US$525

The registration fee covers attendance at all conference sessions, conference materials, welcome reception, poster session, three lunches, and all breaks. You are on your own for all other meals.

All checks or money orders should be made payable (in U.S. dollars only) to the INTERNATIONAL LIFE SCIENCES INSTITUTE (ILSI). All checks must be drawn on, or payable through, a U.S. bank. Refunds (less a US$25 handling fee and applicable bank charges) will be made for cancellations received in writing before July 31, 1992. **No refunds will be made after this date.**

Limited financial assistance may be available for partial travel reimbursement or registration fee waiver. Requests for financial assistance must be made in writing and sent to Ms. Diane Dalisera at the ILSI office by **June 15**. Applications will be held for review 60 days prior to the conference and a final decision will be sent to applicants no later than 35 days before the conference.

Receptions

A welcome reception is scheduled for Monday evening at the hotel, and on Tuesday evening a poster session and reception will also be held at the hotel. All participants are invited to attend; however, reservations are required. Please check the appropriate box(es) on the conference registration form.

Travel

The Washington, D.C. area is served by three major airports: National Airport (10 minutes to downtown Washington), Washington Dulles International Airport (30 minutes), and Baltimore-Washington International Airport (45 minutes).

Official Airlines

American and Delta Airlines have agreed to be the official airlines for the conference. Both airlines are offering special discounts of either 40% off the unrestricted regular coach fare or 5% off their already discounted fares when you book your flights at least seven days in advance and mention that you are attending the ILSI Safety of Water Disinfection Conference. The conference organizers urge you to take advantage of these special offers. Discounts are effective for travel from August 27 to September 6. All restrictions applying to discounted fares must be met.

American Airlines provides regular service to Washington from Chicago, Boston, Miami, and other cities. To obtain American's special meeting fares, simply:

1) Call American Airlines (or have your travel agent call) at 1-800-433-1790 between 0800 and 2000 Eastern time daily.

2) Refer to STAR FILE NUMBER S7482FS.

Delta Airlines provides regular service to Washington's National Airport through hubs in Atlanta, Orlando, and other cities. To obtain Delta's special meeting fares, simply:

1) Call Delta Airlines (or have your travel agent call) at 1-800-241-6760 between 0800 and 2300 Eastern time daily.

2) Refer to SPECIAL MEETING FILE NUMBER T12115.

Official Travel Agent

Executive Travel Associates (ETA), ILSI's official travel agency, has a staff of agents available from 0900 to 1800 Eastern time, Monday through Friday, at 1-800-562-0189 to help book your flights on these or other airlines. They are familiar with the arrangements with American and Delta and can easily assist you in obtaining these discounted fares.

SESSION 8: BALANCING THE RISKS

Methodologies will be examined for balancing the risks of water disinfection procedures in relation to socioeconomic factors, policy considerations, and data gaps in implementing decisions. The revised WHO Water Quality Guidelines will be reviewed and the proposed decision tree introduced in Session 1 will be evaluated in light of the material presented during the conference.

1330 **Introductions**
Session Chair: *Dr. Terry Harvey, United States*
Vice Chair: *Dr. Paul Taylor, Zimbabwe*

1340 **World Health Organization Guidelines for Drinking Water Quality**
Dr. Hend Galal-Gorchev, World Health Organization

1405 **Economic Factors in Balancing Chemical and Microbial Risks**
Dr. E. B. Pike, United Kingdom

1430 **Framework for Decision Making: EPA Perspective**
Mr. Stig Regli, United States

1455 **Panel Discussion**
Balancing the Risks: An Agenda for Action
Moderator: *Dr. Terry Harvey, United States*
Panelists: *Dr. John Doull, United States*
Dr. Arie H. Havelaar, The Netherlands
Dr. Eduardo Salazar-Lindo, Peru
Dr. Jerzy A. Sokal, Poland
Dr. Paul Taylor, Zimbabwe

1600 **Closing Remarks**

1630 **Adjournment**

Faculty

Dr. Houssain Abouzaid
Office National de l'Eau Potable
Rabat, Morocco

Dr. George C. Becking
World Health Organization

Dr. Jerry N. Blancato
Environmental Protection Agency
Las Vegas, Nevada, USA

Dr. Joseph Brown
California Environmental Protection Agency
Berkeley, California, USA

Dr. Richard J. Bull
Washington State University
Pullman, Washington, USA

Dr. Thomas A. Burke
The Johns Hopkins University
Baltimore, Maryland, USA

Dr. Robert M. Clark
Environmental Protection Agency
Cincinnati, Ohio, USA

Mr. Gunther F. Craun
Virginia Polytechnic Institute and State University
Blacksburg, Virginia, USA

Dr. John Doull
University of Kansas Medical Center
Kansas City, Kansas, USA

Dr. Martin S. Favero
Centers for Disease Control
Atlanta, Georgia, USA

Dr. Hend Galal-Gorchev
World Health Organization

Dr. Gerardo Galvis
Universidad del Valle
Cali, Colombia

Mr. Edwin E. Geldreich
Environmental Protection Agency
Cincinnati, Ohio, USA

Dr. Charles P. Gerba
University of Arizona
Tucson, Arizona, USA

Dr. William H. Glaze
University of North Carolina
Chapel Hill, North Carolina, USA

Dr. Gilbert Gordon
Miami University
Oxford, Ohio, USA

Dr. Willie Grabow
University of Pretoria
Pretoria, South Africa

Dr. Charles N. Haas
Drexel University
Philadelphia, Pennsylvania, USA

Dr. Terry Harvey
Environmental Protection Agency
Cincinnati, Ohio, USA

Dr. Arie H. Havelaar
National Institute of Public Health and Environmental Protection
Bilthoven, The Netherlands

Mr. J.R. Hickman
Health and Welfare Canada
Ottawa, Ontario, Canada

Dr. Robert L. Jolley
Oak Ridge National Laboratories
Oak Ridge, Tennessee, USA

Dr. Curtis D. Klaassen
University of Kansas Medical Center
Kansas City, Kansas, USA

Dr. Mark W. LeChevallier
American Water Works Service Company, Inc.
Belleville, Illinois, USA

Faculty *(continued)*

Dr. Alex Malaspina
International Life Sciences Institute
Washington, D.C., USA

Mr. Frederick A. Marrocco
Pennsylvania Department of Environmental Resources
Harrisburg, Pennsylvania, USA

Ms. M. E. (Bette) Meek
Health and Welfare Canada
Ottawa, Ontario, Canada

Dr. Patricia Murphy
Environmental Protection Agency
Cincinnati, Ohio, USA

Dr. Daniel A. Okun
University of North Carolina
Chapel Hill, North Carolina, USA

Dr. Betty H. Olson
University of California
Irvine, California, USA

Dr. Pierre Payment
Institut Armand-Frappier
Laval, Québec, Canada

Dr. E. B. Pike
Water Research Centre
Buckinghamshire, UK

Dr. Michèle Prévost
Ecole Polytechnique
Montréal, Québec, Canada

Mr. Stig Regli
Environmental Protection Agency
Washington, D.C., USA

Mr. Fred M. Reiff
Pan American Health Organization

Dr. Joan B. Rose
University of South Florida
Tampa, Florida, USA

Dr. Eduardo Salazar-Lindo
Universidad Peruana Cayetano Heredia
Lima, Peru

Dr. Philip C. Singer
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Chapel Hill, North Carolina, USA

Dr. Mark D. Sobsey
University of North Carolina
Chapel Hill, North Carolina, USA

Dr. Jerzy A. Sokal
Institute of Occupational Medicine
Sosnowiec, Poland

Dr. James M. Symons
University of Houston
Houston, Texas, USA

Dr. Paul Taylor
University of Zimbabwe
Harare, Zimbabwe

Dr. R. Rhodes Trussell
James M. Montgomery Consulting Engineers, Inc.
Pasadena, California, USA

Dr. D. van der Kooij
KIWA N.V.
Nieuwegein, The Netherlands

Dr. Jan Teun Visscher
International Water and Sanitation Centre
The Hague, The Netherlands

Dr. Peter Werner
University of Karlsruhe
Karlsruhe, Germany

Dr. Kan Xuegui
Ministry of Public Health
Beijing, People's Republic of China

"INVITATION FOR DR. BROMLEY"

TYPE: INVITATION DOCUMENT NUMBER: 9201884
ORIGINATOR: 02
****
SPEECH: YES NO

FROM: SIMPSON, J.A.: UNIVERSITY OF CHICAGO

DATE OF EVENT: 06/24/92 THRU: 06/26/92
TENTATIVE DATES:

LOCATION OF EVENT: UNIVERSITY OF CHICAGO

TIME OF EVENT:

SUBJECT: HE IS WRITING TO INVITE MEMBERS OF THE OSTP STAFF TO ATTEND THE UNIVERSITY'S SYMPOSIUM, "THE PRESERVATION OF NEAR EARTH SPACE FOR FUTURE GENERATIONS".

****

RSVP: 06/09/92

CONTACT PERSON:

CONTACT NUMBER:
****

INVITATION ACCEPTED? YES NO

****
COPIES TO: PHYSICAL SCIENCES

REMARKS:

DATE OF LETTER: 05/08/92 DATE RECEIVED: 05/26/92

FILE: P-INVITATION

1884

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May 8, 1992

D. Allan Bromley
Executive Office of the President
The White House
Washington, D.C. 20500

Dear Dr. Bromley,

I am following up our brief conversation at the National Academy of Sciences Dinner, in which I mentioned to you our plans for a Symposium at Chicago entitled, "The Preservation of Near-Earth Space for Future Generations". Being under the auspices of the University of Chicago as a private university, we have found it possible to bring representatives of all the spacefaring nations in the world to discuss this issue. In addition, it is an interdisciplinary topic that requires wide discussion - often not possible when the sponsorship is from a governmental agency.

I hope that it will be possible for representatives of your office to attend the meeting since I think in the end the U.S. will be faced with this issue at the highest levels.

Please call or write if I can be of further help with regard to this conference and the possible attendance of your staff.

I enclose a brochure and other documents which include information on hotel reservations, registration, etc.

Regards,

John Simpson

J.A. Simpson, Chair, Planning Committee
Arthur H. Compton Distinguished Service Prof. of Physics, Emeritus
Enrico Fermi Inst. & Dept. of Physics

JAS/ym

Encls: Symposium Information
Brochure
Registration Form



THE UNIVERSITY OF CHICAGO
CENTENNIAL SYMPOSIUM
24-26 JUNE 1992

May 1, 1992

Dear Colleague:

I am writing to invite you to participate in the Symposium "The Preservation of Near Earth Space for Future Generations," to be held on June 24-26, 1992 at the University of Chicago. The Symposium is part of both the Centennial Celebration of the University, and the International Space Year. It is being sponsored by the University of Chicago and the Midwest Center of the American Academy of Arts and Sciences and is supported in part by the John D. and Catherine T. MacArthur Foundation and the American Academy.

The purpose of this interdisciplinary Symposium is to present technical issues concerning the developing threat of space debris and radioactive material to the pursuit of scientific, technological, industrial and national security activities in space. Its goal is to discuss how this threat may be mitigated and to explore the economic, legal and international issues involved in reaching an effective international agreement on this world-class problem.

The enclosed Symposium brochure describes the program in detail and lists the titles of the papers, arranged in advance of the conference, and their authors. During the conference the authors will present summaries of their papers to allow adequate time for discussion. A registration fee of $125 will include the conference banquet on June 24, access to the Palmer House Hilton at the special University of Chicago Centennial rate that includes transportation from the hotel to the University and return each day, and special conference fares on American Airlines. A copy of the proceedings, to be sent to you after the conference, is included in the registration fee.

Brochures from the Palmer House Hilton and American Airlines are enclosed. We call your attention to the fact that the discount air fares are only applicable from locations in the United States and Canada and the Palmer House block of rooms will be held for us until May 22.

Dr. Marian Rice, Executive Associate of the Midwest Center of the American Academy of Arts and Sciences and her staff will be supervising all arrangements. If you have questions about the Symposium you may address them to her via US mail, Fax, e-mail or telephone. However, you must return your Registration Form by mail since we can only accept checks or bank drafts (in US currency) payable to the University of Chicago.

Dr. Marian Rice
American Academy of Arts and Sciences
5801 S. Kenwood Avenue
Chicago, Illinois 60637
Telephone: (312) 753-8162
Telefax: (312) 702-1115
E-mail: aaas@midway.uchicago.edu

We look forward to hearing from you at your earliest convenience.

Sincerely,

John

John A. Simpson
Arthur H. Compton Distinguished
Service Prof. of Physics, Emeritus

Encls:

Conference Brochure
Palmer House Hilton Brochure
American Airlines Brochure
Short Bibliography of Readings
Registration Form

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from anywhere in Canada and the USA (including Hawaii, Alaska, Puerto Rico and the Virgin Islands) 7 days a week from 7:00 a.m. to 12:00 midnight central time. If you originate from other areas, call your local American Airlines reservation office. In Bermuda, the Bahamas, Mexico, Europe, United Kingdom, Japan, Australia/New Zealand, Asia and South America, ask for the International Congress Desk.

Reservations Service for the Hearing and Speech Impaired is available 24 hours, 7 days a week. Continental U.S.; Hawaii; San Juan, PR; U.S. Virgin Islands call 1-800-582-1573.

Be sure to ask for STAR File #S-01Z2KU



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Suggested Reading on Orbital Debris

1. Baker, Howard A., Space Debris: Legal and Policy Implications, Martinus Nijhoff Publishers, Boston, 1989.

2. COSPAR and IAF. Plenary Meeting, 26th, Topical Meetings and Workshop on Cosmic Dust and Space Debris, 6th, Toulouse, France, June 30-July 11, 1986, Advances in Space Research, vol. 6, no. 7, 1986.

3. General Accounting Office. Space Program: Space Debris, a Potential Threat to Space Station and Space Shuttle. GAO/IMTEC-90-18. (Washington, DC: US GPO, 1990).

4. Johnson, Nicholas L. and Darren S. McKnight. Artificial Space Debris. (Malabar, FL: Orbit Book Company, 1987).

5. Kessler, D. J. and Shin-Yi Su., eds. Orbital Debris. Proceedings of a workshop sponsored by NASA-JSC [NASA - Science and Technical Information Branch]. NASA Conference Publication 2360.

6. Kessler, D. J., E. Grün, and L. Sehnal, eds. Space Debris, Asteroids and Satellite Orbits. COSPAR Advances in Space Research. vol. 5, no. 2. (Elmsford, NY: Pergamon Press, 1985).

7. Loftus, Joseph P., Jr., ed. Orbital Debris from Upper Stage Breakup. (Washington, DC: AIAA, 1989).

8. McDonnell, J. A., M.S. Hanner, and D. J. Kessler, eds. Cosmic Dust and Space Debris. COSPAR Advances in Space Research. vol. 6, no. 7. (Elmsford, NY: Pergamon Press, 1987).

9. NASA Conference. Orbital Debris Conference: Technical Issues and Future Directions. Baltimore, MD. April 16-19, 1990. CT-10077.

10. NASA, Lyndon B. Johnson Space Center. Orbital Debris. N85-21188.

11. Office of Technology Assessment. Orbiting Debris: A Space Environmental Problem — Background Paper, OTA-BP-ISC-72 (Washington, DC: US GPO, September 1990).

12. Orbital Debris Mitigation Techniques: Technical, Economic, and Legal Aspects, AIAA SP-016-1992.

13. Report on Orbital Debris, Interagency Group (SPACE) for National Security Council, Washington, D.C. February 1989.

14. Runcorn, S. H., M. H. Carr, D. Möhlmann, H. Stiller, D. L. Matson, B. A. C. Ambrosius, and D. J. Kessler, eds. Smaller Solar System Bodies and Orbits. COSPAR Advances in Space Research. vol. 10, nos. 3, 4. (Elmsford, NY: Pergamon Press, 1989).

15. Space Debris - A Report from the ESA Space Debris Working Group. ESA SP-1109, November, 1988.

THE PRESERVATION OF NEAR-EARTH SPACE FOR FUTURE GENERATIONS

24-26 JUNE 1992

PROGRAM ADDENDUM

2. Defining the Problem

c) Effect of the environment on:

iv) Military Applications - Capt. Al Rheinhardt, *Kirkland Airforce Base*

3. Mitigation of and Adaptation to the Space Environment: Techniques and Practices

a) Upper stages and fragmentation - Irving Webster, *McDonnell Space Systems*

c) Reports on Mitigation and Adaptation from spacefaring nations

iii) China - Qi Yong Liang, *Institute of Space Law*

v) Russia - Vladimir F. Utkin, *Control Research Inst., Ministry General Machine Building*

4. Economic Issues

c) Insurance questions -Christopher Kunstadter, *USAIG, New York*

6. A Multilateral Treaty

a) US government views on International Cooperation - William Bartley, *Office of Science and Technology, U.S. Dept. of State*

c) Elements of Model Treaties - Pamela Meredith, *Space Conform, Washington, D.C.*

d) Panel Discussion on International Cooperation and Agreements - Paul Uhlir, *National Academy of Sciences, Chair*

As of 5/92

To register, please return the enclosed Registration Form, with a check or bank draft in U.S. currency, payable to the University of Chicago. A refund for cancellation of registration can be honored until 10 June, 1992.

For further information or assistance, please contact:

Dr. Marian Rice
American Academy of Arts and Sciences
5801 S. Kenwood Avenue
Chicago, IL 60637
Tel: (312)753-8162
Fax: (312)702-1115
e-mail: aaas@midway.uchicago.edu

PLANNING COMMITTEE

John A. Simpson, *Chair*
A.H. Compton Distinguished Service Professor Emeritus, Dept. of Physics, University of Chicago

Diane P. Wood
The Harold J. and Marion F. Green Professor of Law, University of Chicago

Donald Kessler
NASA Senior Scientist, Johnson Space Center, Houston, Texas

Paul Uhlir
Assistant Executive Director, Commission on Phys. Sci., Math. and Applications, National Academy of Sciences

Marian Rice
Executive Associate, Midwest Center, American Academy of Arts and Sciences

University of Chicago
American Academy of Arts and Sciences



THE PRESERVATION OF NEAR-EARTH SPACE FOR FUTURE GENERATIONS

24-26 JUNE 1992

A UNIVERSITY OF CHICAGO CENTENNIAL SYMPOSIUM

THE PRESERVATION OF NEAR-EARTH SPACE FOR FUTURE GENERATIONS

A SYMPOSIUM
On the Occasion of the Centennial of the University of Chicago
and the International Space Year

This interdisciplinary Symposium is focused on the increasing threat to the long term peaceful use of space for the benefit of mankind. Its purpose is to bring to the attention of space-faring nations the increasing danger of space debris and radioactive material to the pursuit of scientific, technological, industrial, and national security activities in space. Its goal is to discuss how this threat may be mitigated and to explore the economic, legal, and international issues that must be faced in reaching an effective international agreement on this world-class problem.

By addressing these issues sufficiently early, all space-faring nations have today a unique opportunity to work towards agreements that will prevent, or at least alleviate, a potentially disastrous situation which is likely to become a reality in the 21st Century.

A legacy of the International Geophysical Year (1957-58) was the Antarctic Treaty which has protected our last continent from destruction. A comparable goal would be the preservation of near-Earth space for future generations. At a time when all nations perceive that such preservation is in their own best interests, it is critical for those most concerned to take steps toward an agreement on this goal.

PROGRAM

1. **Introduction:** Scope, urgency and goals of the interdisciplinary symposium.—John A. Simpson, *University of Chicago*

2. **Defining the Problem**
   a) Sources of debris and radioactive material —Nicholas Johnson, *Kaman Sciences Corporation*
   b) The current and future environment
      i) Overall assessment—Donald Kessler, *NASA Johnson Space Center*
      ii) The European Space Agency—D. Rex, *Institut für Raumflugtechnik und Reaktortechnik*
   c) Effects of the environment on:
      i) Human exploration—Bernard Bloom, *Grumman Space Station, Virginia*
      ii) Space science—Joel Primack, *University of California-Santa Cruz*
      iii) Commercial applications—H. Robert Warren, *Radarsat, Canada*
      iv) Military applications—Col. James Ahern, *Department of Defense*

3. **Mitigation of and Adaptation to the Space Environment: Techniques and Practices**
   a) Upper stages and fragmentation—*TBD
   b) International and Interagency Cooperative Activities—Daniel Jacobs, *NASA Headquarters, Washington, D.C.*
   c) Reports on Mitigation and Adaptation from spacefaring nations
      i) ESA/ESOC—H. Klinkrad, *European Space Operations Center, Darmstadt*
      ii) France—Jean-Louis Marcé, *Centre National D'Etudes Spatiales*
      iii) China—*TBD
      iv) India—U.R. Rao, *Department of Space, India*
      v) Russia—*TBD
      vi) Japan—Susumu Toda, *National Aerospace Laboratory*
      vii) NASA—Joseph P. Loftus, Jr., *NASA Johnson Space Center*

4. **Economic Issues**
   a) Cost/Benefit analysis—Molly Macauley, *Resources for the Future*
   b) Economic Incentives—Molly Macauley
   c) Insurance questions —*TBD

5. **Legal Issues: General**
   a) Environmental treaty-making - Lessons learned for controlling pollution of space —Winfried Lang, *Mission Permanente de L'Autriche, Geneva*
   b) The regulation of orbital debris: current status—Howard A. Baker, *Department of Justice, Canada*
   c) Regulatory choices: multinational, national, and laissez faire—Diane Wood, *University of Chicago Law School*

6. **A Multilateral Treaty**
   a) US government views on International Cooperation—*TBD
   b) Current initiatives in the United Nations—Stephen Gorove, *University of Mississippi Law School*
   c) Model Treaties —*TBD
   d) Round Table on Monitoring and Verification Issues—Paul Uhlir, National Academy of Sciences, chair

7. **Round Table Discussion and Summary**
   (Responses from spacefaring nations' representatives and three persons as surrogates of the audience)

*TBD - To be decided

"INVITATION FOR DR. BROMLEY"

TYPE: INVITATION DOCUMENT NUMBER: 9201709
ORIGINATOR: 02
****
SPEECH: YES NO

FROM: VARIOUS UNIVERSITIES

DATE OF EVENT: 05/20/92 THRU:
TENTATIVE DATES:

LOCATION OF EVENT: RAYBURN HOUSE OFFICE BUILDING

TIME OF EVENT: 5:30 CEREMONY, 7:30 RECEPTION

SUBJECT: AN INVITATION TO ATTEND A SIGNING CEREMONY AND RECEPTION IN CELEBRATION OF THE HISPANIC EDUCATIONAL SATELLITE SYSTEM TO INTERCONNECT THEIR RESPECTIVE INSTITUTIONS.

****

RSVP: 05/15/92

CONTACT PERSON:

CONTACT NUMBER: 202-387-3331
****

INVITATION ACCEPTED? YES NO

****
COPIES TO: INTERNATIONAL/POL

REMARKS:

DATE OF LETTER: 05/08/92 DATE RECEIVED: 05/13/92

FILE: P-DAB-INVITATION

Ana G. Mendez University System (PR),

Eugenio Maria de Hostos Community College (NY),

Heritage College (WA),

Laredo State University (TX),

Mississippi University for Women (MS),

New Mexico Highlands University (NM),

Roosevelt University (IL),

Seton Hall University (NJ),

South Mountain Community College (AZ),

The University of New Mexico (NM),

The University of Texas at Brownsville (TX),

and

The University of Texas - Pan American (TX)

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Signing Ceremony and Reception

in celebration of

The Hispanic Educational Satellite System

to interconnect their respective institutions

Wednesday, May 20, 1992

Signing Ceremony, 5:30 P.M.

Reception, 6:00 to 7:30 P.M.

Rayburn House Office Building

Room 2175

Washington, D.C.

RSVP (202) 387-3331

"Document Control"

TYPE: ACTION DOCUMENT NUMBER: 9201697
ORIGINATOR: 02 STATUS I DIRECTORATE STATUS

****

FROM: POSNER, Martin: UNIVERSITY OF MASSACHUSETTS

TO: DR. D.A. BROMLEY

DATE OF CORRESPONDENCE: 05/07/92

SUBJECT: HE REQUESTS TO KNOW IF THERE IS ANYONE AT YALE DR. BROMLEY WOULD LIKE INVITED TO THEIR COMMENCEMENT CEREMONY FOR THE AWARDING OF HIS HONORARY DEGREE.

****

DIRECTORATE ASSIGNED: DIRECTOR'S OFFICE STAFF ASSIGNED:

ACTION REQUIRED: AS NECESSARY STAFF ACTION:

****

SENDER'S DUE DATE:

OSTP DUE DATE: 05/18/92 STAFF DUE DATE
DATE COMPLETED: DATE COMPLETED/DEPT:

****

COPIES TO: D. Allan Bromley

****

WHITE HOUSE TRACKING #: CONTACT PERSON:
PHONE: EXT:

REMARKS:

OSTP RECEIVED: 05/12/92 DEPT RECEIVED:
FILE: P-INVITATION

CENTRAL FILES:

1697

The Commonwealth of Massachusetts

University of Massachusetts-Boston
Harbor Campus
Boston, Massachusetts 02125-3393

RECEIVED
92 MAY 12 P12:13
OSTP
MAIL ROOM

May 7, 1992

Dr. D. Allan Bromley
Office of Science and Technology Policy
Old Executive Office Building, Room 360
17122 Pennsylvania Avenue
Washington, D.C. 20506

Dear Dr. Bromley,

I was delighted to learn a few days ago that you are to be awarded an honorary degree at the upcoming UMB commencement exercises. I had not been notified prior to the public announcement even though I was the faculty member who submitted your nomination last year.

I look forward to your visit and will do everything possible to make it a pleasant and memorable one along with my colleague in the Physics Department, Marv Antonoff. I have been designated a co-host with Marv by the Chancellor's office and will come with him to the airport to meet you on Friday, May 29th.

All of our students and faculty in Physics are looking forward to your visit which should give a big boost to all of our science programs on campus. We especially will enjoy hosting you at the Physics Department reception for students and faculty following the commencement activities.

I have already taken the liberty of inviting Charlie Bockelman to attend the commencement exercises and the Physics Department reception and would be happy to extend the invitation to any of your other colleagues at Yale that you designate.

I am looking forward to seeing you again.

Sincerely,

Martin

Martin Posner, Associate Professor
Physics Department

"INVITATION FOR DR. BROMLEY"

TYPE: INVITATION DOCUMENT NUMBER: 9201690
ORIGINATOR: 02

****

SPEECH: YES NO

FROM: KISER, Linda and John

DATE OF EVENT: 05/15/92 THRU:
TENTATIVE DATES:

LOCATION OF EVENT: 2029 WATERSIDE DRIVE, WASHINGTON DC

TIME OF EVENT: 8:00 P.M.

SUBJECT: AN INVITATION TO A DINNER IN HONOR OF THE CHELYABINSK NUCLEAR SCIENTISTS.

****

RSVP: 05/13/92

CONTACT PERSON:

CONTACT NUMBER: 202-223-5806

****

INVITATION ACCEPTED? ~~YES~~ NO

****

COPIES TO: INTERNATIONAL/POL

REMARKS:

DATE OF LETTER: 05/08/92 DATE RECEIVED: 05/12/92

FILE: P-INVITATION

For Chelyabinsk Nuclear Scientists

Linda and John Kiser

request the pleasure of your company

Dinner

on Friday, May 15th

at Eight *o'clock*

RSVP
223-5806

2029 Waterside Drive
(Connecticut Avenue
and Belmont)

RECEIVED

02 MAY 12 P12:12

OSTP
MAIL ROOM

1610

WASHINGTON, DC 200
PM
8 MAY
1992



The Honorable D. Allan Bromley
Assistant to the President
for Scientific Affairs
Room 358
Old Executive Office Building
17th and Pennsylvania Avenue N.W.
Washington, D.C. 20500

"INVITATION FOR DR. BROMLEY"
DOCUMENT NUMBER: 9201709

TYPE: INVITATION
ORIGINATOR: 02
****
SPEECH: YES NO

FROM: VARIOUS UNIVERSITIES

DATE OF EVENT: 05/20/92 THRU:
TENTATIVE DATES:

LOCATION OF EVENT: RAYBURN HOUSE OFFICE BUILDING

TIME OF EVENT: 5:30 CEREMONY, 7:30 RECEPTION

SUBJECT: AN INVITATION TO ATTEND A SIGNING CEREMONY AND RECEPTION IN CELEBRATION OF THE HISPANIC EDUCATIONAL SATELLITE SYSTEM TO INTERCONNECT THEIR RESPECTIVE INSTITUTIONS.

****

RSVP: 05/15/92

CONTACT PERSON:

CONTACT NUMBER: 202-387-3331
****

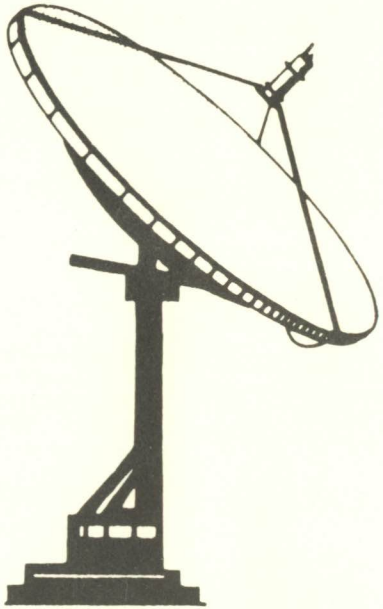
INVITATION ACCEPTED? YES NO

****
COPIES TO: INTERNATIONAL/POL

REMARKS: 5/20/92 - Reported to Miriam Cruze. MM

DATE OF LETTER: 05/08/92 DATE RECEIVED: 05/13/92

FILE: P-DAB-INVITATION



You're Invited . . .

Ana G. Mendez University System (PR),

Eugenio Maria de Hostos Community College (NY),

Heritage College (WA),

Laredo State University (TX),

Mississippi University for Women (MS),

New Mexico Highlands University (NM),

Roosevelt University (IL),

Seton Hall University (NJ),

South Mountain Community College (AZ),

The University of New Mexico (NM),

The University of Texas at Brownsville (TX),

and

The University of Texas - Pan American (TX)

Request the honor of your presence at a

Signing Ceremony and Reception

in celebration of

The Hispanic Educational Satellite System

to interconnect their respective institutions

Wednesday, May 20, 1992

Signing Ceremony, 5:30 P.M.

Reception, 6:00 to 7:30 P.M.

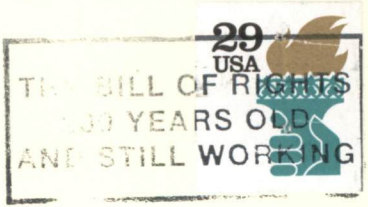
Rayburn House Office Building

Room 2175

Washington, D.C.

RSVP (202) 387-3331





RECEIVED
92 MAY 13 AM 8:48
MAIL ROOM

The Honorable D. Allan Bromley
Assistant to the President
for Science and Technology
Old Executive Office Building
Room #358
17th & Pennsylvania Ave., N.W.
Washington, D.C.
20500

"INVITATION FOR DR. BROMLEY"

TYPE: INVITATION DOCUMENT NUMBER: 9201789
ORIGINATOR: 02

****

SPEECH: YES NO

FROM: CASTAING, F.J.: CHRYSLER CORPORATION

DATE OF EVENT: 06/09/92 THRU: 06/10/92
TENTATIVE DATES:

LOCATION OF EVENT: AUBURN HILLS, MICHIGAN

TIME OF EVENT:

SUBJECT: AN INVITATION TO A TECHNOLOGY EXCHANGE EXPOSITION.

****

RSVP: 06/01/92

CONTACT PERSON:

CONTACT NUMBER:

****

INVITATION ACCEPTED? YES NO

****

COPIES TO: INDUSTRIAL

REMARKS:

DATE OF LETTER: 05/08/92 DATE RECEIVED: 05/18/92

FILE: P-INVITATION

1789

RECEIVED
92 MAY 18 P4:16
OSTP
MAIL ROOM

CHRYSLER CORPORATION

Chrysler Corporation
Vehicle Engineering

May 8, 1992

The Honorable D. Allan Bromley
Assistant to the President for
Science & Technology
Director, Science & Technology Policy
The White House
Washington, DC 20500

Dear Mr. Bromley:

On June 9 and 10, 1992 Chrysler Corporation is sponsoring a Technology Exchange Exposition at our new Technology Center in Auburn Hills, MI. We have invited representatives of the federally supported National, agency, and a select group of industry research laboratories to join with us and our leading suppliers in displaying and talking about new technology that could improve our vehicles and processes.

I would like to invite you to attend this unique event. The tentative agenda is attached, along with location and travel information.

The keynote speakers for the opening sessions on June 9 and 10 will include Mr. R. J. Eaton, Vice Chairman and Mr. R. A. Lutz, President, of Chrysler. We hope you can attend these sessions as well as be our guest at a reception on June 9 at 5:30 PM.

Looking forward to seeing you in June.

Sincerely,

F. J. Castaing
Vice President
Vehicle Engineering

/ah

Attachments

30900 Stephenson Highway
Madison Heights MI 48071

CHRYSLER TECHNOLOGY EXPOSITION

TENTATIVE AGENDA

(Final program will be available at registration.)
(All events at CTC Education Center)

Tuesday, 9 June 1992

7:30 AM — Continental Breakfast

8:15 AM — Plenary Session: (Auditorium)
- Welcome: R. J. Eaton, Vice Chairman, Chrysler Corporation
- Technology Transfer: Invited Laboratory Speaker
- Automotive Technology Assessment: F. J. Castaing, Vice President, Vehicle Engineering
- Technology Needs

9:30 AM — Displays Open

10:00 AM — Concurrent Technical Sessions*

12:00 to 1:00 PM — Lunch

1:30 to 5:00 PM — Concurrent Technical Sessions*

5:30 PM — Reception for Guests and Participants

Wednesday, 10 June 1992

7:30 AM — Continental Breakfast

8:15 AM — Plenary Session: (Auditorium)
- Automotive: R. A. Lutz, President, Chrysler Corporation
- Joint Development Process: Invited Government Speaker

9:00 AM — Displays Open

10:00 AM — Concurrent Technical Sessions*

12:00 to 1:00 PM — Lunch

1:00 to 2:15 PM — Federal Laboratory Technology Transfer Process (Chaired by the Research Triangle Institute)

2:30 to 4:00 PM — Concurrent Technical Sessions*

4:30 PM — Close

*Concurrent Technical Sessions will consist of eight sessions on the following:
- Materials
- Manufacturing and Materials Processing
- Electronics
- Electromechanics
- Environmental Protection
- Engineering Methods (Analysis and Synthesis)
- Energy Conversion and Conservation
- Human Factors & Ergonomics

(Sessions may be added or deleted based on interest.)

CHRYSLER TECHNOLOGY EXPOSITION

DATES: June 9, 1992 - 7:30 AM Expo Opens
June 10, 1992 - 4:30 PM Expo Closes

LOCATION: Chrysler Technology Center
Auburn Hills, Michigan
(see attached map)
Park in the "visitors" lot (follow special event signs) and enter through the main lobby to the registration desk.

ACTIVITIES: Seminars, technical sessions, displays, tours, and one-on-one interchanges (see attached tentative agenda).

Presentations will be scheduled at 8 seminars, with sessions organized according to the technology, during the two-day **Tech Expo, June 9-10, 1992.**

ACCOMMODATIONS: Chrysler Technology Center is accessible through Detroit Metro, Detroit City, and Flint airports. It is located at the intersection of M-59 and I-75, 25 miles north of Detroit.

American Express Group & Incentive Services has negotiated special hotel rates in conjunction with the Technology Exhibit & Seminar.

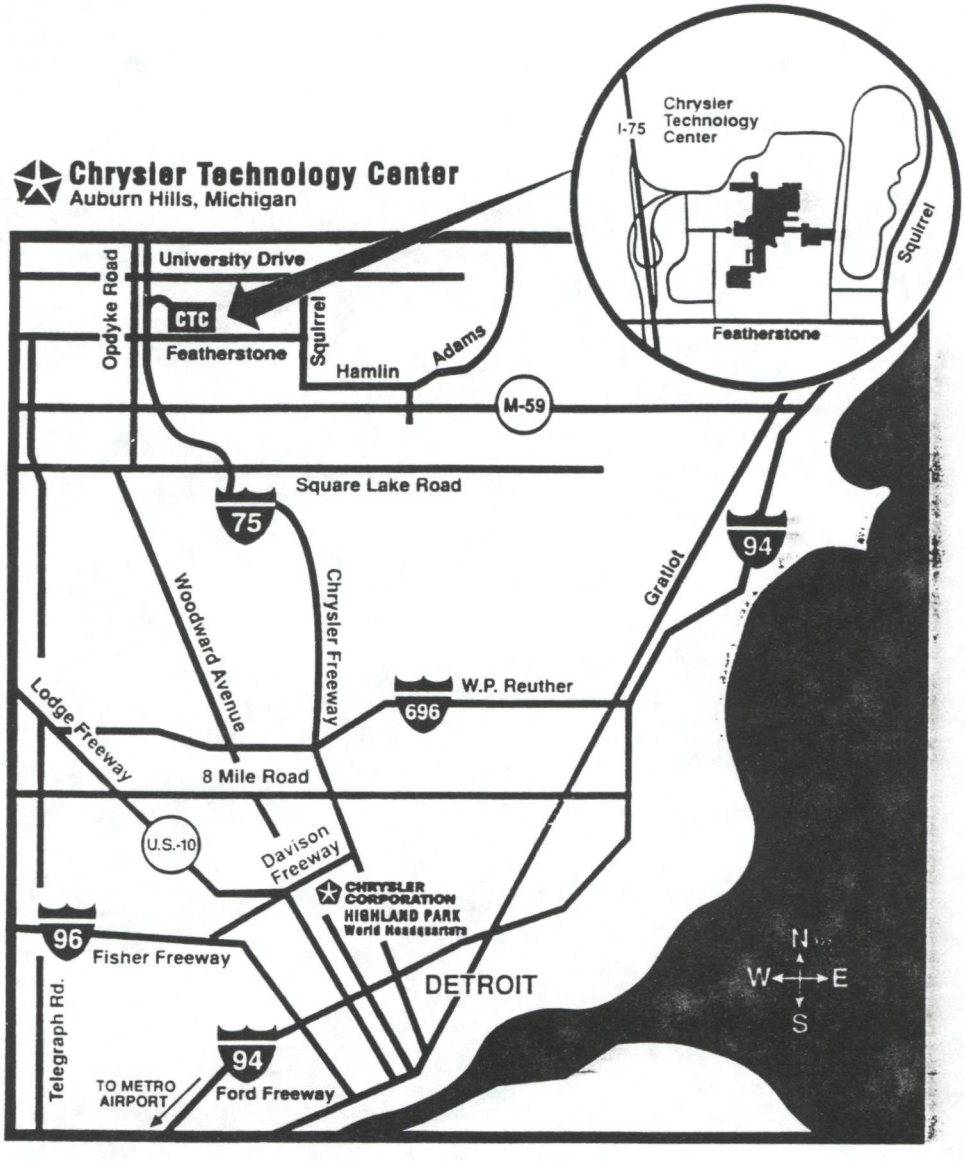
Hotel accommodations have been secured at the Hilton Suites and the Holiday Inn, located minutes from the CTC facility in Auburn Hills, Michigan. The Hilton Suites rate of $65.00 and the Holiday Inn rate of $59.00 are available to all attendees.

In order to take advantage of these savings, hotel reservations must be made through American Express Group & Incentive Services. Please contact them to assist you with your arrangements by calling 1-800-999-1298 between the hours of 8:30 AM and 4:30 PM (EDT).

Hilton Suites
2300 Featherstone Road
Auburn Hills, MI
(313) 334-2222
$65/Night

Holiday Inn
1500 Opdyke Road
Auburn Hills, MI
(313) 373-4550
$59/Night

DIRECTIONS TO CHRYSLER TECHNOLOGY CENTER



THE LOCATION

The Chrysler Technology Center (CTC) is 30 miles northwest of downtown Detroit in Auburn Hills, Michigan. The site is reached via I-75 from the north and south and M-59 from the east and west.

From the South: North on I-75 to the Oakland Tech Center exit (just north of the M-59 intersection). Go right (east) for direct access to the center.

From the North: South on I-75 to the University Drive-Rochester exit (79); turn west (right) on University and continue to Opdyke Road; turn south (left) on Opdyke to Featherstone Road; turn east (left) on Featherstone; continue on Featherstone over I-75 and turn left to enter the center.

From the East: West on M-59 to Opdyke Road (the first exit after you pass under I-75); turn north (left) on Opdyke and then turn east (right) at Featherstone Road; continue on Featherstone over I-75 and turn left to enter the center.

From the West: East on M-59 to Opdyke Road exit; turn north (left) on Opdyke and then turn east (right) at Featherstone Road; continue east on Featherstone over I-75 and turn left to enter the center.

THE WHITE HOUSE

WASHINGTON

June 1, 1992

Dear Mr. Castaing:

Thank you for your letter of May 8 inviting me to attend the Technology Exchange Exposition scheduled for June 9 and 10 in Auburn Hills, Michigan.

As much as I would like to join you, that date on my calendar is not a good one for me to be away from Washington, so I must regretfully decline.

Thank you for thinking of me and I would like to offer my best wishes for a successful exposition.

Sincerely yours,

D. Allan Bromley

D. Allan Bromley
The Assistant to the President
for
Science and Technology

Mr. F. J. Castaing
Vice President
Vehicle Engineering
Chrysler Corporation
30900 Stephenson Highway
Madison Heights, Michigan 48071

"INVITATION FOR DR. BROMLEY"

TYPE: INVITATION DOCUMENT NUMBER: 9201691
ORIGINATOR: 02

****

SPEECH: YES NO

FROM: CALTECH

DATE OF EVENT: 05/26/92 THRU:
TENTATIVE DATES:

LOCATION OF EVENT: CALTECH

TIME OF EVENT: 7:00 P.M.-9:00 P.M.

SUBJECT: AN INVITATION TO A DINNER TO CELEBRATE THE ONE YEAR ANNIVERSARY OF THE INTEL TOUCHSTONE SYSTEM.

****

RSVP: 05/15/92

CONTACT PERSON: MALONEY, Mary

CONTACT NUMBER:

****

INVITATION ACCEPTED? ~~YES~~ NO

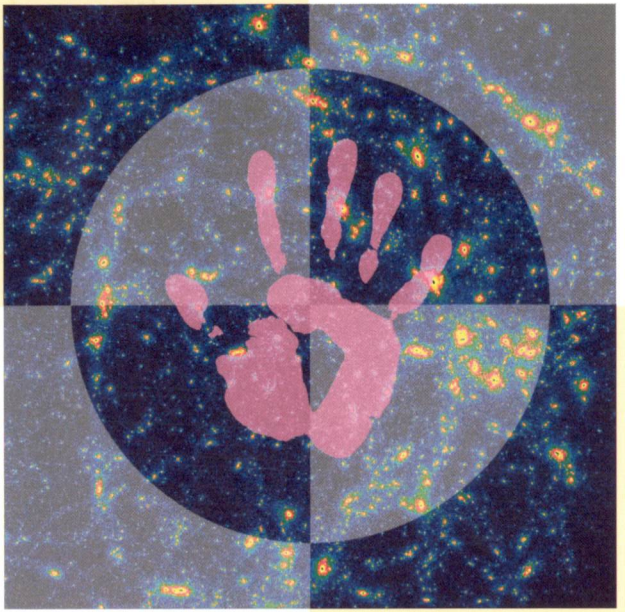
****

COPIES TO: INDUSTRIAL

REMARKS:

DATE OF LETTER: 05/07/92 DATE RECEIVED: 05/12/92

FILE: P-INVITATION



IN CELEBRATION OF
GRAND CHALLENGE
COMPUTING

You are cordially invited

to a special VIP dinner

to celebrate the the one year anniversary

of the Intel Touchstone Delta System.

Nominees for the $35,000 Intel Grand Challenge

Computing Award and their work will be featured.

The dinner will take place Tuesday,

May 26 from 7 pm to 9 pm in the Viennese Ballroom

of the Pasadena Ritz-Carlton,

1401 South Oak Knoll Avenue.

A reception begins at 6 pm in the Viennese Terrace.

Seating is very limited, so please RSVP by May 15th.

Return the enclosed card, or email to

Mary Maloney (mmm@jaguar.ccsf.caltech.edu)

to reserve your seat and to receive your ticket.

Yes. I plan to attend the Celebration of Grand Challenge Computing at Caltech on May 27th.

Yes. I plan to attend the Celebration of Grand Challenge Computing Dinner on Tuesday evening, May 26th.

No. I cannot attend the Celebration.

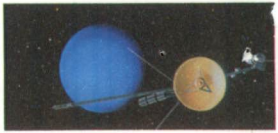
Name

Organization

Address

Mail Code

City/State/Zip



Mary Maloney

Caltech CCSF

Mail Code 158-79

Pasadena, CA 91125

"INVITATION FOR DR. BROMLEY"

TYPE: INVITATION DOCUMENT NUMBER: 9201654
ORIGINATOR: 02

****

SPEECH: YES NO

FROM: KOLBE, Lisa R.: MATHEMATICAL ASSOCIATION OF AMERICA

DATE OF EVENT: 06/08/92 THRU:
TENTATIVE DATES:

LOCATION OF EVENT: DEPARTMENT OF STATE

TIME OF EVENT: 7:00 P.M.-10:00 P.M.

SUBJECT: SHE IS FORWARDING THE OFFICIAL INVITATION FOR THE USAMO AWARDS CEREMONY AND RECEPTION AND DINNER.

****

RSVP: 05/20/92

CONTACT PERSON:

CONTACT NUMBER:

****

INVITATION ACCEPTED? YES NO

****

COPIES TO: INTERNATIONAL/POL

REMARKS:

DATE OF LETTER: 05/05/92 DATE RECEIVED: 05/07/92

FILE: P-INVITATION

1654

The MATHEMATICAL ASSOCIATION of AMERICA
1529 Eighteenth Street, N.W. ▪ Washington, D.C. 20036 ▪ Telephone (202) 387-5200

RECEIVED
92 MAY 15 10
MAIL ROOM

May 5, 1992

Dr. D. Allan Bromley
Office of Science and Technology Policy
Executive Office of the President
The White House
Washington, DC 20500

Dear Dr. Bromley:

I am enclosing the official invitation for the Twenty-first USAMO Awards Ceremony and Reception and Dinner to be held on Monday, June 8, 1992. This is to also reassure your office that the Mathematical Association of America will be responsible for administrative and support costs incurred specifically for the USAMO Olympiad Reception and Dinner that you are so kindly hosting at the Department of State.

It is an evening of celebration in recognition of the eight finalists of the Twenty-first USA Mathematical Olympiad. I invite you to join Dr. Marcia P. Sward, Executive Director of the MAA, and President Deborah Tepper Haimo along with the eight winners at the beginning of the evening in the receiving line in the Adams Room and to give a pre-dinner address as you did last year. The reception and dinner begins at 7:00 pm and concludes at approximately 10:00 pm.

The guest list has been sent to your assistant, Helen McGammon, and as soon as I know the names of the eight finalists, I will be happy to send you that information to you as well.

Thank you again for all the time and effort that you and your office have devoted to this event.

Sincerely,

Lisa R. Kolbe

Lisa R. Kolbe
Organizer, USAMO Ceremonies

Fax (202) 265-2384 E-mail maa@athena.umd.edu

The Assistant to the President
for Science and Technology
and
The Members of the Olympiad Committee
request the pleasure of your company at
The Awards Ceremony
in honor of the Winners of the
Twenty-first U. S. A. Mathematical Olympiad
Monday, the eighth of June
Nineteen hundred and ninety two

R. S. V. P.
by reply card enclosed
Non-Transferable

Black Tie Optional

Program

Bestowing of Awards and Olympiad Address

at five-thirty o'clock

The Members Room
National Academy of Sciences
2101 Constitution Avenue, N. W.
Washington, D. C.

Reception and Dinner

at seven o'clock

Diplomatic Reception Rooms
U. S. Department of State
2201 C Street, N. W.
Washington, D. C.

Due to the increased state of security in the nation's capital, it is necessary for each guest to provide:

Full Name _____ Full Name _____

Social Security Number _____ Social Security Number _____

Citizenship _____ Citizenship _____

Date of Birth _____ Date of Birth _____

An approved photographic identification such as a photographic state driver's permit, valid passport, or valid U.S. government photo i.d. card, will be necessary for admittance to the reception.



Lisa R. Kolbe
The Mathematical Association of America
1529 Eighteenth Street, N. W.
Washington, D. C. 20036

Name(s)

Will ____ will not ____ attend the National Academy of Sciences ceremony

Will ____ will not ____ attend the reception and dinner at the Department of State

on Monday, the eighth of June
nineteen hundred and ninety two
at which the winners of the
Twenty-first U. S. A. Mathematical Olympiad will be honored.

R. s. v. p. by May 23, 1992

(see over)

"INVITATION FOR DR. BROMLEY"

TYPE: INVITATION DOCUMENT NUMBER: 9201813
ORIGINATOR: 02

****

SPEECH: YES NO

FROM: BRUM, I. FRDERICO GARCIA: COMISION NACIONAL PARA LA INICIATIVA DEL CONO SUR

DATE OF EVENT: 05/25/92 THRU:
TENTATIVE DATES:

LOCATION OF EVENT: LIBERTAD BUILDING

TIME OF EVENT: 6:30 P.M.

SUBJECT: AN INVITATION TO ATTEND THE SIGNING OF THE FOUNDING DOCUMENT OF CONO SUR, URUGUAY, NON-PROFIT INTERNATIONAL ORGANIZATION, WHICH WILL BE DEVOTED TO RESEARCH ACTIVITIES ON THE ENVIRONMENT, OCEANS, EARTH AND ATMOSPHERE.

****

RSVP: 05/22/92

CONTACT PERSON:

CONTACT NUMBER:

****

INVITATION ACCEPTED? YES NO

****

COPIES TO: INTERNATIONAL/POL
ENVIRONMENT

REMARKS:

Regretted by phone
PBB
5/21/92

DATE OF LETTER: 05/05/92 DATE RECEIVED: 05/21/92

FILE: P-INVITATION

183

COMISION NACIONAL
PARA LA
INICIATIVA DEL CONO SUR

Edil Hugo Prato 2197
Tel. 48.82.48 - Fax 48.70.37
11200 Montevideo
Uruguay

RECEIVED
92 MAY 21 A9:24
OSTP
MAIL ROOM

Montevideo, May 5th, 1992

Dr. Allan Bromley
Assistant to the President of the United States of America
for Science and Technology
U.S.A.

Dear Sir:

We are pleased to invite you to the signature of the founding document of Cono Sur - Uruguay, non - profit international organization, which will be devoted to research activities on the Environment, Oceans, Earth and Atmosphere.

The founding members will be Cono Sur Initiative Inc. (a Corporation formed by the Universities of Miami and Hawaii). the Manuel Oribe Institute (I.M.O.) and the Catholic University of Uruguay, Damaso Antonio Larrañaga (U.C.U D.A.L.). The Administrative Board will be chaired by a representative from the Executive Power.

Such event, will take place on May 25th, 6.30 p.m. at the Libertad Building, hosted by Dr. Luis Alberto Lacalle, President of the Republic of Uruguay.

Yours sincerely,

C/N Rodolfo Maran
Secretary

Ing. Federico Garcia Brum
President

"INVITATION FOR DR. BROMLEY"

TYPE: INVITATION DOCUMENT NUMBER: 9201616

ORIGINATOR: 02

****

SPEECH: YES NO

FROM: CALTECH

DATE OF EVENT: 05/27/92 THRU:
TENTATIVE DATES:

LOCATION OF EVENT: CALTECH

TIME OF EVENT: 9:00 A.M.

SUBJECT: AN INVITATION TO ATTEND A CELEBRATION MARKING THE FIRST ANNIVERSARY OF THE INSTALLATION OF THE INTEL TOUCHSTONE DELTA SYSTEM AT THE CALIFORNIA INSTITUTE OF TECHNOLOGY.

****

RSVP: 05/15/92

CONTACT PERSON: MALONEY, Mary

CONTACT NUMBER: 818-356-3732

****

INVITATION ACCEPTED? YES NO

****

COPIES TO: INDUSTRIAL

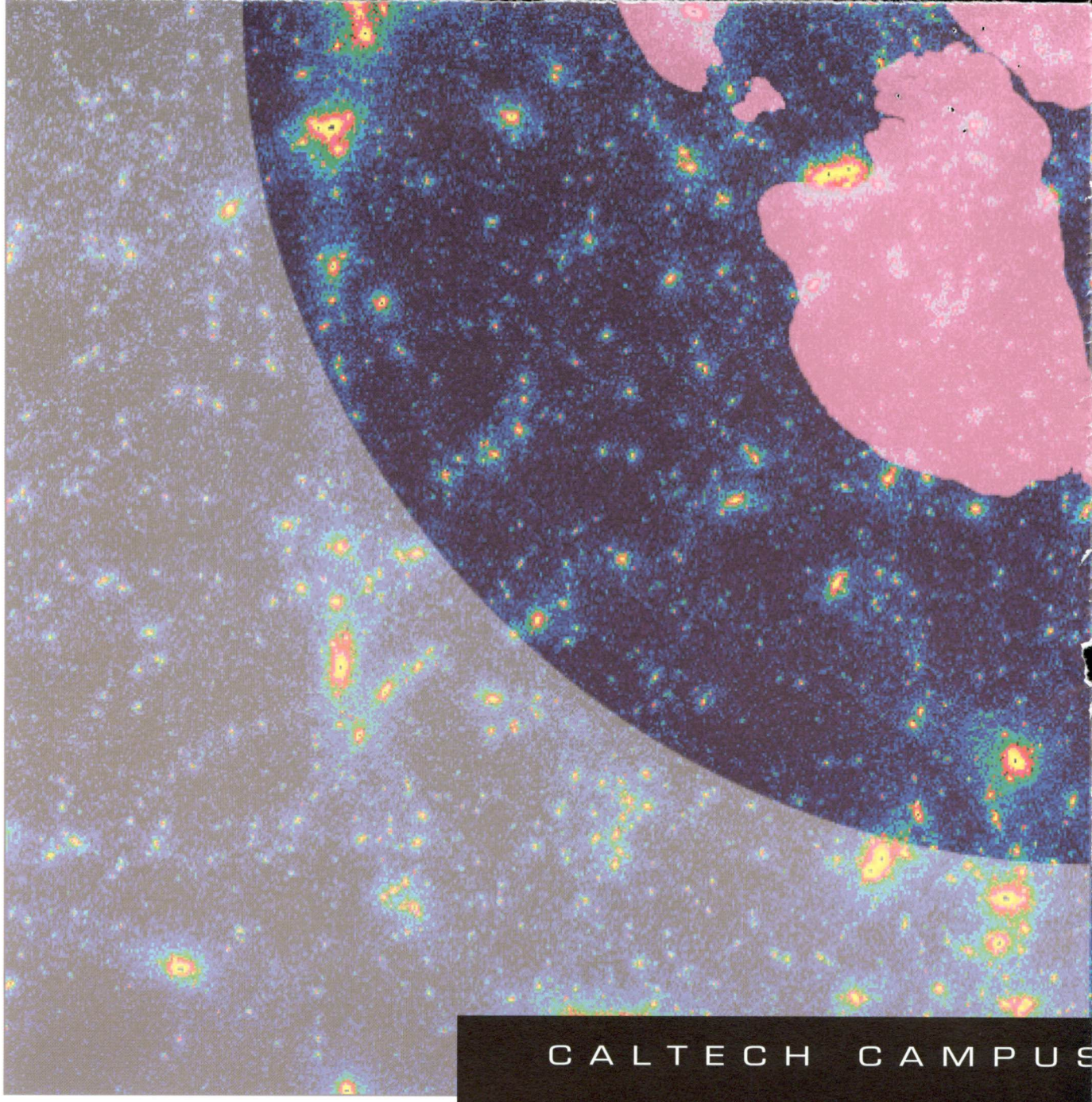
REMARKS:

DATE OF LETTER: 05/05/92 DATE RECEIVED: 05/06/92

FILE: P-INVITATION

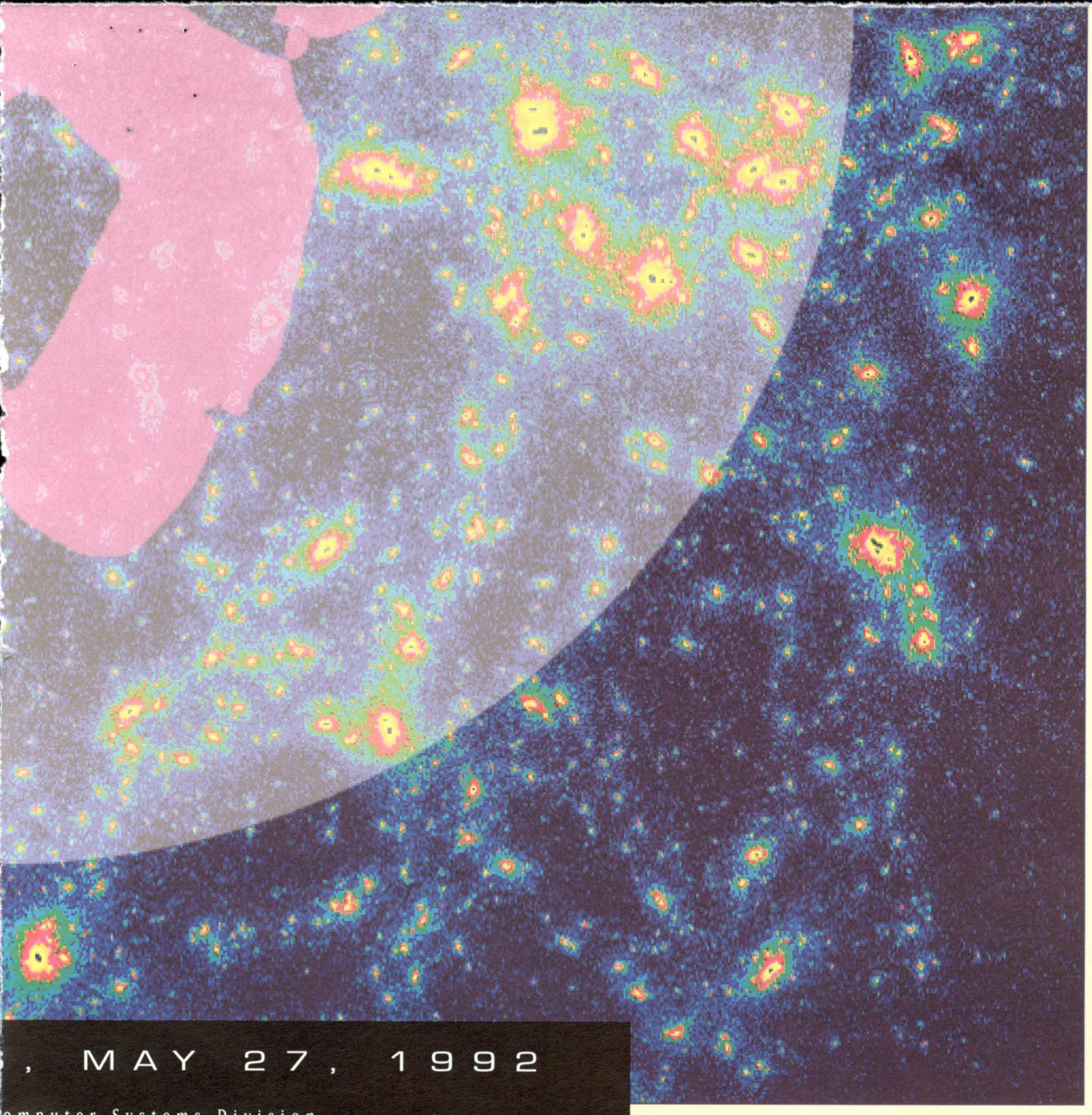
"WITH THE INTEL TOUCHSTONE DELTA SYSTEM PEOPLE HAVE BEEN ABLE TO ATTEMPT THE KINDS OF PROBLEMS THEY HAD PREVIOUSLY ONLY DREAMED OF DOING."

Paul Messina , Director of the Concurrent Supercomputing Consortium



CALTECH CAMPUS

Sponsored by Intel Supercomputer Systems
and The Concurrent Supercomputing Consortium

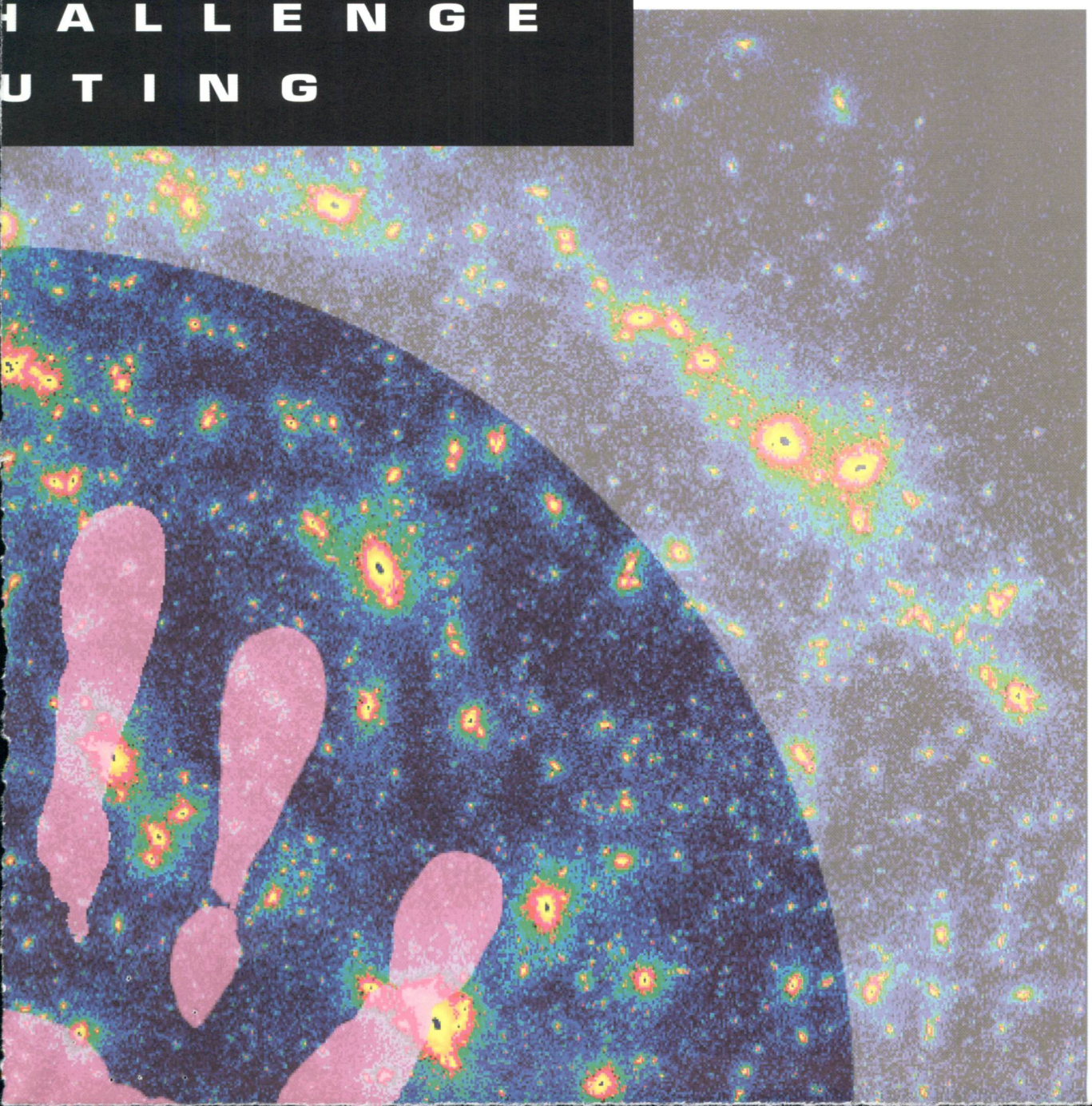


, MAY 27, 1992

omputer Systems Division

ercomputing Consortium

RATION OF
HALLENGE
UTING



The event will take place Wednesday, May 27 on the Caltech campus from 9 a.m. until 5 p.m.

9 a.m.	Registration in Booth Building Courtyard
9 a.m. - 12:30 p.m.	Computational Science Fair Poster sessions Demonstrations Video sessions
12 noon	Box lunches in Athenaeum
1 - 3 p.m.	Celebration ceremony at the west side of the Athenaeum
	Keynote address by Dr. Eugene Wong
	Address by Gary Smaby
	Grand Challenge Computing presentations: Introduction by Dr. Paul Messina
	Presentation of the Intel Grand Challenge Computing Award
	Additional presentations by: Dr. Thomas E. Everhart, President of Caltech; Ed Masi, President & General Manager, Intel Supercomputer Systems Division.
3 - 5 p.m.	Reception at the west side of the Athenaeum

Please RSVP by May 15 by returning the enclosed card,
or by email to Mary Maloney (mmm@jaguar.ccsf.caltech.edu) or phone 818/356-3732.

Concurrent Supercomputing Consortium Members:

Argonne National Laboratory
California's Institute of Technology (Caltech)
Caltech's Jet Propulsion Laboratory
The Center for Research in Parallel Computation
(an NSF Science & Technology Center)
Defense Advanced Research Projects Agency (DARPA)
Intel Corporation's Supercomputer Systems Division
National Science Foundation (NSF)
Pacific Northwest Laboratory
Lawrence Livermore National Laboratory
Los Alamos National Laboratory
Purdue University
Sandia National Laboratories

The model used in the illustration on the poster front is derived from research simulating the evolution of 8.7 million gravitating bodies to study the formation and structure of galaxies in an expanding universe. This image shows a projection of about 5 million bodies. The color represents the projected density along the line of sight corresponding to each pixel. The entire image represents a region about 7Mpc (megaparsec) or about 2e20 (200,000,000,000,000,000,000) kilometers on a side. Image derived from the work of Mike Warren, David Fullagar and John Salmon of the California Institute of Technology on the Intel Touchstone Delta.

IN CELEB

GRAND CH

COMP



You are cordially invited to join in celebrating the first anniversary of the installation of the Intel Touchstone Delta System at the California Institute of Technology. Over the past year, researchers have used the Touchstone Delta to tackle a number of Grand Challenge Computing problems. This celebration will recognize the achievements of these scientists and announce the winner of the posted $35,000 Intel Grand Challenge computing award.

The event takes place on Wednesday, May 27 on the campus at Caltech. Following registration, you are invited to a Computational Science Fair which will be held in several campus labs. Disciplines represented will be: astrophysics, biology, chemistry, engineering, physics and space physics. The Fair will also include poster and video sessions.

Registration and the Fair begin at 9:00 a.m. The celebration ceremony and keynote address begin at 1:00 in the afternoon. Dr. Eugene Wong, Associate Director for Industrial Technology in the White House Office of Technology Policy, will be the keynote speaker.

Gary Smaby, well-known high performance computing industry analyst, will give a timely perspective on trends in high performance computing.

There will be application presentations provided by members of the Concurrent Supercomputing Consortium, and finally the presentation of the $35,000 Intel Grand Challenge Computing Award.

Join in celebrating the impact that concurrent supercomputing is having upon the Grand Challenges of science.

Gary P. Smaby

Mr. Smaby is president of the Smaby Group, Inc., a Minneapolis-based consulting, research and financial advisory firm focused on high-performance computing.

Prior to founding the Smaby Group, Mr. Smaby was managing director at Needham & Company, a New York investment banking firm. His experience also includes several years at Piper, Jaffray & Hopwood, first as a vice president and senior technology analyst and then as a managing director. He has been involved in a number of entrepreneurial ventures, including Realcom Corporation, a company he founded.

Mr. Smaby is a member of the National Computer Graphics Association, SIGGRAPH and the American Electronics Association. He co-authors a monthly column for *Supercomputing Review* and serves as a regular contributing editor to Technologic Partners *Computer Letter.*

Mr. Smaby received a B.A. degree from St. Olaf College.

Eugene Wong

Dr. Wong is Associate Director for Industrial Technology in the White House Office of Science and Technology Policy (OSTP). Prior to his current position, he served as Associate Director of Physical Sciences and Engineering with OSTP.

Dr. Wong began his research career in 1955 with IBM, where he worked until 1956 and again from 1960 until 1962. From 1962 until 1991, Dr. Wong served as a Professor in the Electrical Engineering and Computer Sciences Department at the University of California, Berkeley. He was department chairman from 1985 to 1989.

A National Science Foundation Fellow, a Guggenheim Fellow, a Vinton Hayes Fellow at Harvard, and a Miller Professor at Berkeley, Dr. Wong was elected to the National Academy of Engineering in 1987.

Dr. Wong received his B.S., A.M. and Ph.D. degrees in Electrical Engineering from Princeton University.

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DR. D. ALLAN BROMLEY
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YOUR INVITATION TO CELEBRATE GRAND CHALLENGE COMPUTING

Yes. I plan to attend
the Celebration
of Grand Challenge Computing
at Caltech on May 27th.

No. I cannot attend
the Celebration.

Dr. D. Allan Bromley
Name

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