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**Record Group/Collection:** George H.W. Bush Presidential Records  
**Collection/Office of Origin:** Speechwriting, White House Office of  
**Series:** Grant, Mary Kate, Files  
**Subseries:** Subject File, 1988-1991

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**OA/ID Number:** 13878  
**Folder ID Number:** 13878-010

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**Folder Title:**  
Cal Tech Commencement Speech, 6/14/91 [2]

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Stack:	Row:	Section:	Shelf:	Position:
<b>G</b>	<b>19</b>	<b>2</b>	<b>7</b>	<b>3</b>

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THE WHITE HOUSE

WASHINGTON

June 11, 1991

MEMORANDUM FOR TONY SNOW

FROM: ROGER B. PORTER *RBP*  
SUBJECT: Presidential Remarks: Cal Tech Commencement  
Address

We have reviewed the attached remarks from a policy standpoint and have noted our suggested changes on the draft.

Please let us know if you have any questions or if we may help in any other way.

cc: Phillip D. Brady

Document No. 24483166

# WHITE HOUSE STAFFING MEMORANDUM

DATE: 6/10/91 ACTION/CONCURRENCE/COMMENT DUE BY: TUESDAY 6/11/91 3:00 P.

SUBJECT: PRESIDENTIAL REMARKS: CAL TECH COMMENCEMENT

	ACTION FYI			ACTION FYI	
VICE PRESIDENT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	MCCLURE	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SUNUNU	<input type="checkbox"/>	<input type="checkbox"/>	PETERSMEYER	<input type="checkbox"/>	<input type="checkbox"/>
SCOWCROFT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	PORTER	<input checked="" type="checkbox"/>	<input type="checkbox"/>
DARMAN	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ROGICH	<input checked="" type="checkbox"/>	<input type="checkbox"/>
BRADY	<input type="checkbox"/>	<input checked="" type="checkbox"/>	SMITH	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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GRAY	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
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REMARKS:

Please forward your comments directly to Tony Snow, Rm. 122, x2930, no later than 3:00 p.m., Tuesday, June 11, with a copy to this office. Thank you.

RESPONSE:

**PHILLIP D. BRADY**  
Assistant to the President  
and Staff Secretary  
Ext. 2702

91 JUN 10 PM 2:47

Grant / Cawley  
June 10, 1991  
Draft two  
A:CALTECHPRESIDENTIAL REMARKS: CAL TECH COMMENCEMENT  
PASADENA, CALIFORNIA  
FRIDAY, JUNE 14, 1991  
10:00 A.M.

[Acknowledgements] ((It's a pleasure to be here at Cal Tech. However, my trip back to Washington will be delayed. /// Some of Cal Tech's finest reassembled Air Force One in the lobby of my hotel. //// Today isn't Ditch Day, is it?))

We celebrate today the centennial of Cal Tech. This institution has accomplished more in 100 years than many will accomplish in a millennium. Your students, professors and graduates have looked into the heart of the atom -- and gazed at stars billions of miles away. They have created new medicines and technologies; they have sent rockets hurtling into the heavens; they have redefined the sciences upon which modern technology -- and modern life -- depend. Cal Tech's mission is outward-looking, its quest never-ending, and its path of discovery truly remarkable. ///

Earlier this century, in the days of smokestacks and smelters, Henry Luce declared the advent of the American Century. He was right. And as this American Century draws to a close, we <sup>look forward to</sup> ~~must declare the advent of~~ the Next American Century. Today, ours is the era of microchips and M-TV. And ours is an economy increasingly based upon knowledge -- rather than on natural resources, cheap labor, or geographic location. As you well

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know, here at Cal Tech, knowledge does not stand still ... it expands to fulfill the horizon. My challenge to you today is one of fulfilling your own horizons, and with them, the horizons of all Americans.

We are now on the verge of <sup>a</sup> new voyage in the American experience, ~~We are~~ charting a fresh course for the unseen world. But to reach it, we will need a strong, swift current of new and exciting ideas. [[Cal Tech is providing many of them -- Nobel laureate Murray Gell-Mann is hard at work on this fall's symposium, "Visions of a Sustainable World," where your thinkers will look a hundred years into the future.]]

Thomas Aquinas once said that if the highest aim of a captain were to preserve his ship, he would keep it in safe harbor forever. Now, our imagination begins to explore the 21st Century, the time has come to leave port and set sail -- to the New World just beyond the horizon.

The Techers [Tekk-ers] who have explored new worlds -- whether the positron and the quark, or the fingerprint of the human gene, or the microcosm of the silicon chip -- these brilliant men and women understand the dynamics of solving a problem. But like them, you must fix your gaze on the distance and seize opportunities -- to possess that vision that will lead us into the 21st Century.

I think of the day I graduated from college. We were impatient, // optimistic, // ((bored with the speaker)) ... but we sensed a coming adventure. I suspect it's the same with you.

Only this time, you probably aren't thinking about becoming farmers, like Barbara and I were. My generation built our future. Yours will (propel destiny) with your inventiveness, your ingenuity, and your imagination.

I'm talking about the next frontier. In the 21st century, the power of the individual -- as well as the power of the nation -- will depend upon knowledge. ~~Just as the writer Alvin Toffler predicted, a "power shift" is sweeping America.~~ The economic battleground will be the labs and libraries, the bookshelves and computer screens across the country. ~~((I'm not talking about a nation of words here))~~ but whether you're in the military, at the market or on the mainframe, knowledge will define power.

Some call this ~~(The Third Wave ...)~~ The Information Age ... or The New Age of Discovery. <sup>a nod to</sup> ~~With apologies to~~ Henry Luce, I like to call this challenge the Next American Century. And if we face this future foursquare, we will transform the nation. ///

Let me explain how we'll do it. First, the free market ~~can~~ <sup>is the crucible</sup> ~~be a tremendous source of ingenuity.~~ <sup>Lincoln recognized this when he observed that the work</sup> With free markets and free people, creativity can be unleashed and the America Dream made alive. Take a look at the good some people are achieving: Charles Richter and George Housner's research has saved untold lives through their work on predicting and preparing for earthquakes. Harry Gray's research could lead to our harvesting energy from sunlight the same way plants do. And medical researcher Pamela Bjorkman's research may someday prevent diseases like arthritis and diabetes.

THERE is a "FIRST" here but "SECOND" and "THIRD" NEVER APPEAR.

of the Patent Office "adds the fuel of interest to the fire of ingenuity."

And take a look at all the creative entrepreneurs, the ones with that knack for know-how. In fact, I got a letter the other day from four Cal Tech grads who formed a company named "Gemstar." They'd heard me talk about our six National Education Goals to achieve excellence by the year 2000. I once joked that the seventh goal should be that by the turn of the century, Americans must be able to get their VCRs to stop flashing "12:00." /// I admit, I didn't think it was possible. /// But these young entrepreneurs quickly invented a device that sets the VCR clock correctly, and wrote to me: "[We] responded promptly to your national call for VCR-literacy by the year 2000, in fact, nine years ahead of schedule."//

Good place for possible insert on the President's computer lessons.

With guys like these at work, there may be hope for those of us who are still novices in the age of technology. /// Like me, these guys like what works. Take our education strategy, for example -- called America 2000 -- it concentrates on what works.

America 2000 breaks the mold -- because it's time we started measuring success by <sup>what our kids learn and can do</sup> ~~tests passed~~ instead of dollars spent.

Whether in our schools and child care centers, or our factories and neighborhoods, government must be part of the solution -- not part of the problem.

And good can result when government acts intelligently and programs show results -- like Head Start, where kids get the tools they need to start school ready to learn. That's a program this Administration supports. We like programs that work -- ~~ones that use the free market as a model~~ -- ones that create

Head Start is not a good example of a free market program.

opportunity for our citizens, not lock them out of the political process and make them wards of the state.

To match the wisdom of the free market, government must act intelligently. Bigger isn't better. Better is better. And so one hundred days ago today, I asked the Congress to tackle the urgent problems here at home with the same commitment we dedicated to tackling the crisis in the Persian Gulf. I asked for just two bills to be passed in a hundred days -- a comprehensive crime bill, and a transportation bill. These are bills that work. But they've been sitting there collecting dust longer than some Congressmen. /// Neither bill is on my desk yet, and the American people don't understand why. //

They don't understand what's so hard about enacting a bill to fight crime in a hundred days. They don't understand the delay, the inaction, the footdragging. Particularly when they see that Congress can pass a funding bill for the Lawrence Welk Museum ... and a fish farm in Arkansas ... and a new tour boat for American Samoa ... while threatening to cancel the Space Station Freedom. ~~Last week, Congress nearly cancelled the Second Golden Age of space exploration and its possibilities for new materials, new processes and new wonder drugs here on Earth.~~

After a difficult fight over funding for the Space Station Freedom, we return now to our broader mission: to call the people toward the higher good, the <sup>risen</sup> bigger picture, a greater adventure. ~~Throughout our history Americans have~~ <sup>to meet the challenges of the day</sup> ~~we've done it before~~ ... first carving a <sup>A</sup> superpower out of the wilderness ... then creating the most prosperous, educated,

*This may not be appropriate for commitment address*

*Please see suggested insert*

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enlightened, <sup>society</sup> ~~nation~~ ever on Earth ... and now reaching beyond our planet to the glory of Space.

Here at Cal Tech, your astronomers are exploring new worlds at Keck and Palomar; scientists can now use the world's fastest computer -- here, at the JPL labs -- to enable unmanned space <sup>such as the Pioneers and Voyagers</sup> missions <sup>to</sup> touch the furthest corners of the <sup>galaxy system</sup> universe. ((I hear <sup>explore the mysterious outer planets and to</sup> that the computer is so advanced, it can actually calculate the number of "Tommy's Burgers" you kids eat ... and it can reprogram the scoreboard at the Rosebowl even faster. //// )) ((But I do think it's great ... in fact, Cal Tech is one of the few schools in the country where "P.C." has always stood for "personal computer."))

To guarantee that the 21st Century is indeed the Next American Century, the forces of the free market and the government are not enough. They must be combined with something more: the brilliance of those who make a difference in the lives of others -- the ones I call Points of Light. The American people understand what it takes to solve problems in their own neighborhoods. They are the ones on the front lines of the war on drugs, the ones teaching others how to read, the ones taking care of AIDS babies after work at night. In the Next American Century, all of us have a responsibility to lead. <sup>Each of</sup> ~~The most~~ <sup>the</sup> important parts of our communities -- the union halls, the police clubs, the <sup>educators</sup> ~~school~~-groups, the chambers of commerce, everyone -- can use their power to solve problems. Because there isn't a

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problem in America that isn't being solved somewhere, ~~and can't~~  
~~be solved everywhere.~~

Together, we may not right all wrongs, but we can try. Your education here at Cal Tech enables you to lead, to use your talents for the sake of our country, our communities and our children -- not just for yourself. Those of you who volunteered to help abused women and children at the Hestia House; or taught kids to read in Pasadena; or helped the boys and girls at Five Acres -- you have already begun to lead. You understand that with your diploma today comes a commitment to fulfill the horizons of opportunity for all ... justice ... freedom ... and peace on Earth.

Whether you are drawn to the magic of the marketplace, to the honor of public service, or the ethic of serving others, each of you holds the power to transform America. Your generation is charting our voyage into the Next American Century. I join you in your quest for faraway places and salute your vision of worlds unseen. God bless each and every one of you, and thank you.

# # #

Speech Insert

I am pleased that last week, after much hard work by people in the Administration and the Congress who believe in mankind's future in space, the House voted to go forward with the space station. This international project promises to usher in a Second Golden Age of space exploration. One that will result in an increased understanding of the universe and of man's role in it as we prepare to journey outward to the moon and then on to Mars.



THE WHITE HOUSE

WASHINGTON

91 JUN 11 5:17

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Assistant to the President  
and Staff Secretary  
Ext. 2702

91 JUN 10 PM 2:47

Grant / Cawley  
June 10, 1991  
Draft two  
A:CALTECH

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PASADENA, CALIFORNIA  
FRIDAY, JUNE 14, 1991  
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problem in America that isn't being solved somewhere, ~~and can't~~  
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Speech Insert

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Document No. 244831SS

*91 JUN 11 8 55 AM '91*  
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REMARKS:

Please forward your comments directly to Tony Snow, Rm. 122, x2930, no later than 3:00 p.m., Tuesday, June 11, with a copy to this office. Thank you.

*Substantial comments*

RESPONSE:

*DP*

PHILLIP D. BRADY  
Assistant to the President  
and Staff Secretary  
Ext. 2702

91 JUN 10 PM 2:47

Grant / Cawley  
June 10, 1991  
Draft two  
A: CALTECHPRESIDENTIAL REMARKS: CAL TECH COMMENCEMENT  
PASADENA, CALIFORNIA  
FRIDAY, JUNE 14, 1991  
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Earlier this century, in the days of smokestacks and smelters, Henry Luce declared the advent of the American Century. He was right. And as this American Century draws to a close, we must declare the advent of the Next American Century. Today, ours is the era of microchips and M-TV. And ours is an economy increasingly based upon knowledge, ~~rather than on natural resources, cheap labor, or geographic location.~~ As you well

know, ~~here at Cal Tech,~~ <sup>never</sup> knowledge ~~does not~~ stand still ... it is dynamic <sup>an ever-changing expanding</sup> and expands to fulfill the horizon. My challenge to you today is one of fulfilling your own horizons, and with them, the horizons of all Americans.

We are now on the verge of new voyage in the American experience. We are charting a fresh course for the unseen world. But to reach it, we will need a strong, swift current of new and exciting ideas. [[Cal Tech is providing many of them -- Nobel laureate Murray Gell-Mann is hard at work on this fall's symposium, "Visions of a Sustainable World," where your thinkers will look a hundred years into the future.]]

Thomas Aquinas once said that if the highest aim of a captain were to preserve his ship, he would keep it in safe harbor forever. Now, <sup>as</sup> our imagination begins to <sup>encounter</sup> explore the 21st Century, the time has come to leave port and set sail -- to the New World just beyond the horizon.

<sup>Many</sup> ~~of~~ Techers [Tekk-ers] ~~we~~ <sup>already</sup> have explored new worlds -- ~~the~~ <sup>the</sup> worlds ~~whether~~ the positron and the quark, or the fingerprint of the human gene, or the <sup>minutiae</sup> ~~microcosm~~ <sup>universe</sup> of the silicon chip. <sup>These</sup> brilliant men and women understand the <sup>architecture</sup> ~~dynamics~~ of solving a problem. <sup>And</sup> ~~But~~ like them, you must fix your <sup>too</sup> ~~eyes~~ <sup>vision</sup> on the distance ~~and seize opportunities~~ <sup>or the opportunities that lie ahead.</sup> ~~to possess that vision that will lead us into the 21st Century.~~

I think of the day I graduated from college. We were impatient, // optimistic, // ((bored with the speaker)) ... but we sensed a coming adventure. I suspect it's the same with you.

3

Only this time, you probably aren't thinking about becoming farmers, like Barbara and I were. My generation built our future <sup>with mortar, not bricks, and machinery. innovation</sup> Yours will propel destiny with ~~your~~ inventiveness, ~~your~~ ingenuity, and ~~your~~ imagination.

<sup>This is</sup> I'm talking about the next frontier. In the 21st century, the power of the individual -- as well as the power of the nation -- will depend upon knowledge. ~~Just as the writer~~ Alvin Toffler predicted, a "power shift" is sweeping America. The economic battleground will be the labs and libraries, the bookshelves and computer screens across the country. ((I'm not talking about a nation of nerds here)) -- but whether you're in the military, at the market or on the mainframe, knowledge will define <sup>opportunity</sup> ~~power~~.

Some call this The Third Wave ... or The Information Age ... or The New Age of Discovery. With apologies to Henry Luce, I ~~believe~~ <sup>is the</sup> like to call this challenge the Next American Century. And if we face this future foursquare, we will transform the nation. ///

~~Let me explain how we'll do it. First,~~ <sup>First</sup> the free market <sup>drives</sup> ~~can~~ ~~be a tremendous source of ingenuity.~~ <sup>Creativity's breathe life into</sup> ~~With free markets and free~~ people, ~~creativity can be unleashed and~~ the America Dream ~~made~~ <sup>can</sup> ~~alive.~~ <sup>are</sup> Take a look at the good ~~some~~ people ~~are~~ achieving:

Charles Richter and George Housner's research has saved untold lives through their work on predicting and preparing for earthquakes. Harry Gray's research could lead to our harvesting energy from sunlight the same way plants do. And medical researcher Pamela Bjorkman's research may someday prevent diseases like arthritis and diabetes.

~~And take~~ a look at ~~all~~ the ~~creative~~ entrepreneurs, the ones with that knack for know-how. ~~In fact~~, I got a letter the other day from four Cal Tech grads who formed a company named "Gemstar." They'd heard me talk about our six National Education Goals to achieve excellence by the year 2000. I once joked that the seventh goal should be that by the turn of the century, Americans must be able to get their VCRs to stop flashing

"12:00." /// I admit, I didn't think it was possible. /// But ~~this~~ <sup>team of upstarts</sup> these young entrepreneurs quickly invented a device that sets the VCR clock <sup>early and</sup> correctly. <sup>They then</sup> ~~and~~ wrote to me: "[We] responded promptly to your national call for VCR-literacy by the year 2000, in fact, nine years ahead of schedule."///

With guys like these ~~at work~~, there may be hope for ~~those of~~ <sup>guys</sup> ~~us who are still novices~~ in the age of technology. /// Like me, ~~they~~ <sup>like me, still struggling</sup> these guys like what works. ~~Our~~ <sup>national</sup> Our education strategy, ~~for~~ ~~example~~ -- called America 2000 -- ~~it~~ concentrates on what works.

America 2000 breaks the mold -- because ~~it's the way we started~~ <sup>we are determined to</sup> measuring success ~~by tests passed~~ <sup>by something other than</sup> instead of dollars spent. ~~Whether~~ <sup>to</sup> ~~in our schools and child care centers, or our factories~~ <sup>RP</sup> ~~and neighborhoods, government must be part of the solution -- not part of the problem.~~ <sup>we must also ensure that is</sup> ~~part of the problem.~~ <sup>something called results.</sup>

And good can result when government acts intelligently and programs show results -- like Head Start, where kids get the ~~inexpensive~~ <sup>inexpensive</sup> tools they need to start school ready to learn. ~~That's a program~~ <sup>that's where to put our efforts.</sup> ~~this Administration supports.~~ We like programs that work -- ones ~~that use the free market as a model -- ones that create~~

And we have in the case

5

~~opportunity for our citizens, not lock them out of the political process and make them wards of the state.~~

To match the wisdom of the free market, government must ~~act~~ <sup>understand</sup> ~~intelligently~~. Bigger isn't better. Better is better. And so one hundred days ago today, I asked the Congress to tackle the urgent problems here at home with the same commitment we dedicated to tackling the crisis in the Persian Gulf. I asked for just two bills to be passed in a hundred days -- a comprehensive crime bill, and a transportation bill. These are bills that work. But they've been sitting there collecting dust longer than some Congressmen. /// Neither bill is on my desk yet, and the American people don't understand why. //

They don't understand what's so hard about enacting a bill to fight crime in a hundred days. They don't understand the delay, the inaction, the footdragging. Particularly when they see that Congress can pass a funding bill for the Lawrence Welk Museum ... and a fish farm in Arkansas ... and a new tour boat for American Samoa ... while threatening to cancel the Space Station Freedom. Last week, Congress nearly cancelled the Second Golden Age of space exploration and its possibilities for new materials, new processes and new wonder drugs here on Earth.

~~After a difficult fight over funding for the Space Station Freedom, we return now to our broader mission: to call the people toward the higher good, the bigger picture, a greater adventure.~~

*This scheme within the beltway must be a mystery to most of America. I believe a more noble purpose awaits our attention. We must call upon American higher aspirations.*

We've done it before ... first carving a superpower out of the wilderness ... then creating the most prosperous, educated,

6

enlightened, nation ~~over~~ on Earth. ~~and now reaching beyond our planet to the glory of space.~~

Here at Cal Tech, your astronomers are exploring new worlds at Keck and Palomar; scientists can now use the world's fastest computer -- here, at the JPL labs -- to enable unmanned space missions to touch the furthest corners of the universe. ((I hear that the computer is so advanced, it can actually calculate the number of "Tommy's Burgers" you <sup>all</sup> kids eat ... and it can reprogram the scoreboard at the Rosebowl even faster. //// )) ((But I do think it's great ... in fact, Cal Tech is one of the few schools in the country where "P.C." has always stood for "personal computer."))

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7

problem in America that isn't being solved somewhere -- and can't be solved everywhere.

Together, we may not right all wrongs, but we can try. Your education here at Cal Tech enables you to lead, to use your talents for the sake of our country, our communities and our children -- not just for yourself. Those of you who volunteered to help abused women and children at the Hestia House; or taught kids to read in Pasadena; or helped the boys and girls at Five Acres -- you have already begun to lead. You understand that with your diploma today comes a commitment to fulfill the horizons of opportunity for all ... justice ... freedom ... and peace on Earth.

Whether you are drawn to the magic of the marketplace, to the honor of public service, or the ethic of serving others, each of you holds the power to <sup>help ensure a</sup> ~~transform~~ <sup>Whole and Good.</sup> America. Your generation is <sup>mapping the</sup> ~~charting our~~ voyage into the Next American Century. ~~I join you~~ ~~in your quest for faraway places and salute your vision of worlds~~ <sup>Good luck and</sup> ~~unseen.~~ God bless each and every one of you, and thank you.

# # #

WHITE HOUSE STAFFING MEMORANDUM

DATE: 6/10/91 ACTION/CONCURRENCE/COMMENT DUE BY: TUESDAY 6/11/91 3:00 p.m

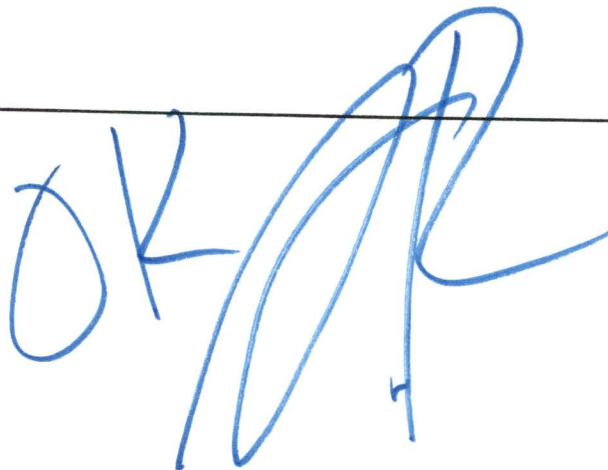
SUBJECT: PRESIDENTIAL REMARKS: CAL TECH COMMENCEMENT

	ACTION FYI			ACTION FYI	
VICE PRESIDENT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	MCCLURE	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SUNUNU	<input type="checkbox"/>	<input type="checkbox"/>	PETERSMEYER	<input type="checkbox"/>	<input type="checkbox"/>
SCOWCROFT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	PORTER	<input checked="" type="checkbox"/>	<input type="checkbox"/>
DARMAN	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ROGICH	<input checked="" type="checkbox"/>	<input type="checkbox"/>
BRADY	<input type="checkbox"/>	<input checked="" type="checkbox"/>	SMITH	<input checked="" type="checkbox"/>	<input type="checkbox"/>
BROMLEY	<input checked="" type="checkbox"/>	<input type="checkbox"/>	UNTERMAYER	<input type="checkbox"/>	<input type="checkbox"/>
CARD	<input type="checkbox"/>	<input checked="" type="checkbox"/>	BOSKIN	<input checked="" type="checkbox"/>	<input type="checkbox"/>
DEMAREST	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ROGERS	<input type="checkbox"/>	<input checked="" type="checkbox"/>
FITZWATER	<input type="checkbox"/>	<input checked="" type="checkbox"/>	SNOW	<input type="checkbox"/>	<input checked="" type="checkbox"/>
GRAY	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
HOLIDAY	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

REMARKS:

Please forward your comments directly to Tony Snow, Rm. 122, x2930, no later than 3:00 p.m., Tuesday, June 11, with a copy to this office. Thank you.

RESPONSE:



PHILLIP D. BRADY  
Assistant to the President  
and Staff Secretary  
Ext. 2702

91 JUN 10 PM 2:47

Grant / Cawley  
June 10, 1991  
Draft two  
A:CALTECH

**PRESIDENTIAL REMARKS: CAL TECH COMMENCEMENT  
PASADENA, CALIFORNIA  
FRIDAY, JUNE 14, 1991  
10:00 A.M.**

[Acknowledgements] ((It's a pleasure to be here at Cal Tech. However, my trip back to Washington will be delayed. /// Some of Cal Tech's finest reassembled Air Force One in the lobby of my hotel. //// Today isn't Ditch Day, is it?))

We celebrate today the centennial of Cal Tech. This institution has accomplished more in 100 years than many will accomplish in a millennium. Your students, professors and graduates have looked into the heart of the atom -- and gazed at stars billions of miles away. They have created new medicines and technologies; they have sent rockets hurtling into the heavens; they have redefined the sciences upon which modern technology -- and modern life -- depend. Cal Tech's mission is outward-looking, its quest never-ending, and its path of discovery truly remarkable. ///

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Let me explain how we'll do it. First, the free market can be a tremendous source of ingenuity. With free markets and free people, creativity can be unleashed and the America Dream made alive. Take a look at the good some people are achieving: Charles Richter and George Housner's research has saved untold lives through their work on predicting and preparing for earthquakes. Harry Gray's research could lead to our harvesting energy from sunlight the same way plants do. And medical researcher Pamela Bjorkman's research may someday prevent diseases like arthritis and diabetes.

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With guys like these at work, there may be hope for those of us who are still novices in the age of technology. /// Like me, these guys like what works. Take our education strategy, for example -- called America 2000 -- it concentrates on **what works**. America 2000 **breaks the mold** -- because it's time we started measuring success by tests passed instead of dollars spent. Whether in our schools and child care centers, or our factories and neighborhoods, **government must be part of the solution -- not part of the problem.**

And good can result when government acts intelligently and programs show results -- like Head Start, where kids get the tools they need to start school ready to learn. That's a program this Administration supports. We like programs that work -- ones that use the free market as a model -- ones that **create**

opportunity for our citizens, not lock them out of the political process and make them wards of the state.

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# # #

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DATE: 6/10/91 ACTION/CONCURRENCE/COMMENT DUE BY: TUESDAY 6/11/91 3:00 p.m

SUBJECT: PRESIDENTIAL REMARKS: CAL TECH COMMENCEMENT

	ACTION FYI			ACTION FYI	
VICE PRESIDENT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	MCCLURE	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SUNUNU	<input type="checkbox"/>	<input type="checkbox"/>	PETERSMEYER	<input type="checkbox"/>	<input type="checkbox"/>
SCOWCROFT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	PORTER	<input checked="" type="checkbox"/>	<input type="checkbox"/>
DARMAN	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ROGICH	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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91 JUN 10 PM 2:47

Grant / Cawley  
June 10, 1991  
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<sup>A</sup> The ones who turn  
on basic research  
into new products  
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4

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this Administration supports programs that use the free market  
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② like housing vouchers to give public housing residents and @ ~~tax~~ tax credits for low-income parents to choose child care

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Whether you are drawn to the magic of the marketplace, to the honor of public service, or the ethic of serving others, each of you holds the power to transform America. Your generation is charting our voyage into the Next American Century. I join you in your quest for faraway places and salute your vision of worlds unseen. God bless each and every one of you, and thank you.

# # #

THE WHITE HOUSE  
WASHINGTON

Date: 6/11

TO: **MK**

FROM: **ANDY FOSTER**  
**Associate Director**  
**Office of Political Affairs**

As if you need more  
shit on Cal Tech. I  
promised Tom Loeffler I  
would pass this along  
- like a good Doobie!

Tom was our TX Bush  
Chair and is a good friend  
of the Boss - so...



I have no recommendation,  
just passing along FYI.

Thanks -

And

→ ? EXCHANGE - BEER -  
SOON? I'M DYING  
FOR A GOOD "SCOOP"  
SESSION!

☺

McCAMISH, MARTIN & LOEFFLER

A PROFESSIONAL CORPORATION

1200 REPUBLIC OF TEXAS PLAZA  
175 E. HOUSTON  
P.O. BOX 2599  
SAN ANTONIO, TEXAS 78299-2599  
(512) 225-5500  
TELECOPIER (512) 225-1283

SUITE 300 - EAST  
555 13TH STREET, NW  
WASHINGTON, D.C. 20004  
(202) 637-6850  
TELECOPIER (202) 637-6861

SUITE 2050  
98 SAN JACINTO BLVD.  
AUSTIN, TEXAS 78701  
(512) 322-5500  
TELECOPIER (512) 322-5518

TELECOPY COVER SHEET

TO: Andy Foster

TELECOPIER NUMBER: 456-2380

CONFIRMATION PERSON: \_\_\_\_\_

FROM: Ron Newbury  
MCCAMISH, MARTIN & LOEFFLER

ACCOUNT NUMBER: \_\_\_\_\_

NUMBER OF PAGES (including cover sheet): 2

PERSON SENDING TELECOPY: Ron

DATE: 6/6/91

Andy:

PURSUANT TO MY PHONE MESSAGE, THIS IS THE  
TYPE OF LANGUAGE SEMATECH WAS HOPING  
COULD BE INCLUDED IN THE PRESIDENT'S  
UPCOMING SPEECH AT CAL-TECH.

THANKS, Ron

IF YOU DID NOT RECEIVE ALL OF THE PAGES OR IF THEY ARE ILLEGIBLE,  
PLEASE CALL. THANK YOU.

June 12 Cal Tech Speech

SEMATECH insert

As Gen. Schwarzkopf said in his commencement address at the Naval Academy in Annapolis recently, "High technology won the war."

We saw the success of our high tech weapons in Operation Desert Storm - from the Patriot missiles to the Abrams M-1 tanks to the F-117A stealth fighters. The superior technological advantage of the United States was instrumental in limiting that conflict to 72 hours and helped keep allied casualties to a minimum.

But if the United States hopes to continue its role in the world, we must maintain a constant high level of technological capability. The Department of Defense must procure research and development to ensure our technological superiority over potential adversaries. Furthermore, I believe it is strategically important that we have the domestic capability and capacity for that leading edge technology.

I am very proud that this Administration has already taken steps to ensure this nation's position as the world leader in technology, especially in semiconductors, which are the hearts of our high tech weapons.

For each of the past three years, we have recommended that Congress fund SEMATECH, the unique government-industry semiconductor research consortium in Austin, Texas. The Department of Defense and the U.S. semiconductor industry have invested equally in this research program that is designed to make sure America maintains its rightful pre-eminent position in computer chip manufacturing.

SEMATECH has had a very positive effect on this country's R&D efforts and has contributed significantly to our national security. SEMATECH gives DARPA, the Defense Advanced Projects Research Agency, the ability to leverage private industry dollars and expertise to ensure U.S. technological superiority in semiconductor manufacturing for critically needed defense electronics.

Efforts such as SEMATECH will insure that this nation will have the technological capability to develop the next generation of high tech weapons, should we need them.

For Further information  
contact:  
Mark Nelson  
SEMATECH 429-2021

# WHITE HOUSE STAFFING MEMORANDUM

9/9 JUN 11 10:33 AM '91

DATE: 6/10/91 ACTION/CONCURRENCE/COMMENT DUE BY: TUESDAY 6/11/91 3:00 p.m.

SUBJECT: PRESIDENTIAL REMARKS: CAL TECH COMMENCEMENT

	ACTION FYI			ACTION FYI	
VICE PRESIDENT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	MCCLURE	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SUNUNU	<input type="checkbox"/>	<input type="checkbox"/>	PETERSMEYER	<input type="checkbox"/>	<input type="checkbox"/>
SCOWCROFT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	PORTER	<input checked="" type="checkbox"/>	<input type="checkbox"/>
DARMAN	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ROGICH	<input checked="" type="checkbox"/>	<input type="checkbox"/>
BRADY	<input type="checkbox"/>	<input checked="" type="checkbox"/>	SMITH	<input checked="" type="checkbox"/>	<input type="checkbox"/>
BROMLEY	<input checked="" type="checkbox"/>	<input type="checkbox"/>	UNTERMAYER	<input type="checkbox"/>	<input type="checkbox"/>
CARD	<input type="checkbox"/>	<input checked="" type="checkbox"/>	BOSKIN	<input checked="" type="checkbox"/>	<input type="checkbox"/>
DEMAREST	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ROGERS	<input type="checkbox"/>	<input checked="" type="checkbox"/>
FITZWATER	<input type="checkbox"/>	<input checked="" type="checkbox"/>	SNOW	<input type="checkbox"/>	<input checked="" type="checkbox"/>
GRAY	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
HOLIDAY	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

REMARKS:

Please forward your comments directly to Tony Snow, Rm. 122, x2930, no later than 3:00 p.m., Tuesday, June 11, with a copy to this office. Thank you.

RESPONSE:

THE "WHOLE of Good America"  
WHOLE of Good Communities  
Should Be WORKED INTO  
THE SPECT AS A FOLLOW UP  
TO THE 100 DAYS SPECT

PHILLIP D. BRADY  
Assistant to the President  
and Staff Secretary  
Ext. 2702

91 JUN 10 PM 2:47

Grant / Cawley  
June 10, 1991  
Draft two  
A:CALTECH

**PRESIDENTIAL REMARKS: CAL TECH COMMENCEMENT  
PASADENA, CALIFORNIA  
FRIDAY, JUNE 14, 1991  
10:00 A.M.**

[Acknowledgements] ((It's a pleasure to be here at Cal Tech. However, my trip back to Washington will be delayed. /// Some of Cal Tech's finest reassembled Air Force One in the lobby of my hotel. //// Today isn't Ditch Day, is it?))

We celebrate today the centennial of Cal Tech. This institution has accomplished more in 100 years than many will accomplish in a millennium. Your students, professors and graduates have looked into the heart of the atom -- and gazed at stars billions of miles away. They have created new medicines and technologies; they have sent rockets hurtling into the heavens; they have redefined the sciences upon which modern technology -- and modern life -- depend. Cal Tech's mission is outward-looking, its quest never-ending, and its path of discovery truly remarkable. ///

Earlier this century, in the days of smokestacks and smelters, Henry Luce declared the advent of the American Century. He was right. And as this American Century draws to a close, we must declare the advent of the Next American Century. Today, ours is the era of microchips and M-TV. And ours is an economy increasingly based upon knowledge -- rather than on natural resources, cheap labor, or geographic location. As you well

know, here at Cal Tech, knowledge does not stand still ... it expands to fulfill the horizon. My challenge to you today is one of fulfilling your own horizons, and with them, the horizons of all Americans.

We are now on the verge of new voyage in the American experience. We are charting a fresh course for the unseen world. But to reach it, we will need a strong, swift current of new and exciting ideas. [[Cal Tech is providing many of them -- Nobel laureate Murray Gell-Mann is hard at work on this fall's symposium, "Visions of a Sustainable World," where your thinkers will look a hundred years into the future.]]

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I think of the day I graduated from college. We were impatient, // optimistic, // ((bored with the speaker)) ... but we sensed a coming adventure. I suspect it's the same with you.

Only this time, you probably aren't thinking about becoming farmers, like Barbara and I were. My generation built our future. Yours will propel destiny with your inventiveness, your ingenuity, and your imagination.

I'm talking about the next frontier. In the 21st century, the power of the individual -- as well as the power of the nation -- will depend upon knowledge. Just as the writer Alvin Toffler predicted, a "power shift" is sweeping America. The economic battleground will be the labs and libraries, the bookshelves and computer screens across the country. ((I'm not talking about a nation of nerds here)) -- but whether you're in the military, at the market or on the mainframe, knowledge will define power.

Some call this The Third Wave ... or The Information Age ... or The New Age of Discovery. With apologies to Henry Luce, I like to call this challenge the Next American Century. And if we face this future foursquare, we will transform the nation. ///

Let me explain how we'll do it. First, the free market can be a tremendous source of ingenuity. With free markets and free people, creativity can be unleashed and the America Dream made alive. Take a look at the good some people are achieving: Charles Richter and George Housner's research has saved untold lives through their work on predicting and preparing for earthquakes. Harry Gray's research could lead to our harvesting energy from sunlight the same way plants do. And medical researcher Pamela Bjorkman's research may someday prevent diseases like arthritis and diabetes.

And take a look at all the creative entrepreneurs, the ones with that knack for know-how. In fact, I got a letter the other day from four Cal Tech grads who formed a company named "Gemstar." They'd heard me talk about our six National Education Goals to achieve excellence by the year 2000. I once joked that the seventh goal should be that by the turn of the century, Americans must be able to get their VCRs to stop flashing "12:00." /// I admit, I didn't think it was possible. /// But these young entrepreneurs quickly invented a device that sets the VCR clock correctly, and wrote to me: "[We] responded promptly to your national call for VCR-literacy by the year 2000, in fact, nine years ahead of schedule."//

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### COMMUNITIES WHOLE & GOOD -

And good can result when government acts intelligently and programs show results -- like Head Start, where kids get the tools they need to start school ready to learn. That's a program this Administration supports. We like programs that work -- ones that use the free market as a model -- ones that create

opportunity for our citizens, not lock them out of the political process and make them wards of the state.

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# # #

## LATE COMMENTS FROM NASA ON CAL TECH

Speech, HW

5

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After a difficult fight over funding for the Space Station Freedom, <sup>the House of Representatives put the program back on track. Now we trust</sup> ~~we return now~~ to our broader mission: to call the people the Senate will endorse a balanced program and let us return toward the higher good, the bigger picture, a greater adventure.

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6

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# Carolyn's Comments



Grant / Cawley  
June 10, 1991  
Draft two  
A: CALTECH

\* Search: "Cal Tech" and change to "Caltech"

**PRESIDENTIAL REMARKS: CAL TECH COMMENCEMENT  
PASADENA, CALIFORNIA  
FRIDAY, JUNE 14, 1991  
10:00 A.M.**

Intro by ~~RODUS~~ Gov. Wilson

[See attached.]

[Acknowledgements] ((It's a pleasure to be here at Cal Tech. However, my trip back to Washington will be delayed. /// Some of Cal Tech's finest reassembled **Air Force One** in the lobby of my **hotel**. //// Today isn't **Ditch Day**, is it?))

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1941 - on eve of WWII

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also: the "great Am. Cen." or the "first great Am. cen."

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*(( dead ↓ ))*  
**Charles Richter** and **George Housner's** research has saved untold lives through their work on predicting and preparing for earthquakes. **Harry Gray's** research could lead to our harvesting energy from sunlight the same way plants do. And medical researcher **Pamela Bjorkman's** research may someday prevent *[ Bjork-man ]* diseases like arthritis and diabetes. ✓

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"12:00." /// I admit, I didn't think it was possible. /// But these young entrepreneurs quickly invented a device that <sup>fixes the</sup> ~~sets the~~ VCR clock <sup>problem</sup> ~~correctly~~, and wrote to me: "[We] responded promptly to your national call for VCR-literacy by the year 2000, in fact, **nine years ahead of schedule.**"// <sup>Do you want to note that it took 2 Ph.d.'s to do it?</sup>

The device is for recording; it doesn't set the clock--- though it removes the need for a clock.

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Also note: S.S.F. = manned flight + funding was approved at the expense of unmanned flight (re: Caltech + JPL.) Just an FYI that this section may not elicit great applause at Caltech,

A semantics stretch:

The House Approp. Comm. submitted to the full house a recommendation to cancel \$.

But the full house voted, and S.S.F. got the \$ ... the full House didn't nearly cancel S.S.F., it was only a rec' from committee.

The world's fastest computer is on campus, not at JPL. It's not related to unmanned space research.

(( See attached. ))

6

enlightened, nation ever on Earth ... and now reaching beyond our planet to the glory of Space.

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# # #

CALIFORNIA INSTITUTE OF TECHNOLOGY  
Office of the President  
Pasadena, California 91125  
FAX NUMBER: (818) 449-9374

91 JUN 11 14:35

FACSIMILE COVER SHEET

Date: 6/11/91

Page 1 of 2 (including cover sheet)

To: <u>Carahyn Pawley</u>	From: <u>Mary Webster</u>
FAX # <u>(202) 436-6218</u>	Phone (Sender): _____

MESSAGE: Answer to questions posed by Lisa Kelly.  
We will fax you the stage diagrams  
this afternoon

Mary

Medicines Created or Invented at Caltech

None. Although research done at Caltech has provided the background knowledge essential for developing a great number of medicines. The closest we can come is the establishing of the "minimum daily requirement" for vitamins/mineral.

Work to be done on the Touchstone SupercomputerOn Caltech Campus

Simulations of neural network functions  
 Calculations of complex fluid flows  
 Searches for binary radio pulsars in astronomy

At JPL

Spacecraft image processing  
 Global climate modeling  
 Engineering design of spacecraft

Pamela Bjorkman

The phonetic pronunciation of Dr. Bjorkman's name is: Byork-man

Individuals on Platform who should be recognized

(This is still in flux)

Governor Pete Wilson (Mrs. Wilson will be in the audience)

Congressman Carlos Moorhead  
 Caltech's local congressman

Dr. Ruben F. Mettler  
 Chairman, Board of Trustees, California Institute of Technology  
 Retired Chairman, TRW  
 (Dr. Mettler is the presiding official for the ceremony)

Dr. Thomas E. Everhart  
 President, California Institute of Technology

Mr. R. Stanton Avery  
 Chairman Emeritus, Board of Trustees, California Institute of  
 Technology  
 Founder Chairman, Avery Dennison Corporation

Dr. Arnold O. Beckman  
 Chairman Emeritus, Board of Trustees, California Institute of  
 Technology  
 Founder Chairman, Beckman Instruments

Dr. Lee A. DuBridge  
 President Emeritus, California Institute of Technology  
 Former Science Advisor to President Nixon

Dr. Harold Brown  
 Former President, California Institute of Technology  
 Former Secretary of Defense

Dr. Marguerite Shuster  
 Commencement Chaplain  
 Pastor, Knox Presbyterian Church, Pasadena