

- +How many of you can think back to your days as a
  - +student in your first college chemistry courses...
  - +Can anyone tell me the element which comes after Gold...
    - +...anyone...anyone...
- +Introduction
  - +Notre Dame
- +Governor Introduction
  - +Honored guests, ladies and gentlemen
  - +I am very pleased to tell you that
    - +we have a special guest with us today.
  - +I refer of course to our Governor, James Blanchard,
    - +who has made a special effort to join us
    - +despite a very full calendar.
  - +It is particularly appropriate that Governor Blanchard
    - +is able to be with us today since it has been
    - +his vision for the future of our State that has
    - +helped make this building possible.
  - +Indeed, this magnificent laboratory for chemical sciences stands
    - +as a symbol of the extraordinary progress our
    - +State has made under the strong leadership of Governor Blanchard
  - +The Governor foresaw that the future prosperity of Michigan
    - +required creative cooperation between, research,
    - +education, business, private philanthropy,
    - +the State and private sector to create
    - +a new economic foundation for Michigan
    - +as we develop from an industrial to knowledge based society.
  - +I should note that my first opportunity to appreciate this
    - +vision and his strong leadership occurred within
    - +days after he took office when he rapidly formed a
    - +team to attempt to attract the Microelectronics
    - +and Computer Corporation to Michigan.
    - +in this particular effort,
  - +Although we lost this particular one to a powerful Texas lobby,
    - +we learned a great deal in the process.
    - +lobby, since that time higher education, state government, and industry
  - +And since that time, Governor Blanchard has led an
    - +effort in which higher education, state government, and industry
    - +have come together as a powerful team to build the knowledge
    - +infrastructure necessary to secure the prosperity and well-being
    - +of our State.
  - +Through innovative programs such as the REF
    - +the formation of catalytic research institutes such as MBI and ITI,
    - +strong investments in higher education as evidenced by this building,
    - +and the strong, visionary, and courageous leadership of Governor Blanchard
  - +Michigan has compiled a list of achievements
    - +which is now the envy of the nation.

- +Ann Arbor alone we now have:
  - +i) NCMS
  - +ii) NASA Center for Space Commercialization
  - +iii) Two major federal centers of excellence,
    - +one in high speed electronics and another
    - +in ship propulsion and hydrodynamics
  - +iv) MRC Center for electronics manufacturing
  - +v) the Hughes Research Institute
  - +v) And, of course, NSFnet,
    - +which last week was identified as the backbone
    - +of a new interstate highway system of information exchange
    - +to be built by the federal government
    - +with the potential of attracting 100s of M
    - +to Michigan.
  - +vi) and other activities too numerous to mention.
- +And the impact on our state has been profound.
  - +Indeed, the State Department of Commerce
  - +has estimated that the University's programs
  - +in computers, electronics, and robotics
  - +alone have already stimulated the growth of
  - +a \$5 B industry in industrial automation
  - +in the Detroit-Ann Arbor corridor...with
  - +hundreds of new companies,
  - +and thousands of new jobs.
- +Today, other states are coming to Lansing and Ann Arbor
  - +to learn from the Michigan experience...
  - +to copy the Michigan model!
- +The renewed investment in higher education of recent years
  - +which has been the key to these achievements
  - +has taken extraordinary vision, courage, and determination
  - +
  - +
  - +with many other competing demands and pressures.
- +It has also taken new commitments from the private sector,
  - +from Michigan industry, its foundations, and private citizens.
- +
- +yet another step in this remarkable partnership
  - +between state government, higher education, and
  - +the private sector that is restoring Michigan to the
  - +a position of economic leadership in Ymerica.
- +
- +The state has assembled its tremendous assets and it's people
  - +into a winning team involving state government, Michigan's
  - +colleges and universities, business, labor, and industry.
- +Governor Blanchard, we thank you for participating in
  - +this important event...and but even more significantly,

- +we join with the citizens of Michigan in
- +thanking for your leadership of our state...which has made
- +Michigan a model for the nation as we face together
- +the advent of an exciting new competitive age,
- +the age of knowledge in a global economy.
- +and students--we thank you for all of your efforts...
- +Let me now introduce Governor Blanchard
- +to you to make a few remarks.
- +GOVERNOR BLANCHARD
- +Chemistry Dedication
- +Acknowledgements
  - +Governor Blanchard, Regents of the University, Regents Emeriti,
  - +Presidents Emeriti, Special Friends and members of the University family.,
  - +I am delighted you could be with us
  - +for this truly splendid moment for our University.
  - +It is a milestone for all the reasons that
    - +the several speakers have already noted in terms of
    - +the contribution the building will make to our teaching and learning.
    - +But it is also a milestone in forging a new partnership
    - +between the people and leaders of the State of Michigan,
    - +the Corporate and philanthropic community,
    - +and the University and its devoted friends and supporters.
    - +Let me explain...
- +Age of Knowledge
  - +As many of you know, I am a scientist by
  - +training and background...indeed, I
  - +am perhaps the worst of all types of
  - +scientists...a burned-out theoretical physicist.
  - +I must also confess I tend to be one of those
  - +people who lives more in the future than in
  - +the present or the past...
  - +And as I look to the future, I have sensed the ever
  - +accelerating pace of change in our society,
  - +our nation, the world.
  - +But there are even more profound changes underway...
  - +Looking back over history, one can identify certain
  - +abrupt changes, discontinuities, in the nature,
  - +the very fabric of our civilization...
  - +The Renaissance, the Age
  - +of Discovery, the Industrial Revolution
  - +There are many who contend that our society is
  - +once again undergoing such a dramatic shift in
  - +fundamental perspective and structure.
  - +Today we are evolving rapidly to a new post-industrial,
  - +knowledge-based society, just as a century ago our
  - +agrarian society evolved through the Industrial Revolution.

- +In a sense, we are entering a new age, an age of knowledge,
  - +in which the key strategic resource necessary for our
  - +prosperity, security, and social well-being has become
  - +knowledge--educated people and their ideas.
- +In a very real sense, today we are entering a new age...
  - +what as been termed "an age of knowledge",
  - +in which the key strategic resource will become
  - +educated people and their ideas.
- +Key element in transformation, is the emergence of knowledge
  - +as the new critical commodity, as important as mineral ores,
  - +timber, and access to low skilled labor were at an earlier time.
- +This new critical commodity knows no boundaries.
  - +It is generated and shared w
  - +
  - +it spreads very quickly.
  - +
  - +and at a very rapid rate.
  - +
  - +widely understood in developed nations who have been sharply
  - +incr`asing their investments in science and technolgy.
- +From this perspective, it seems clear that investments
  - +such as this laboratory--and more generally in our people
  - +through in education--will become the key to the future
  - +strength and prosperity of our state...
  - +...just as it will be for our nation.
- +Previous economic transformations were closely associated
  - +with major public investment in infrastru
  - +
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  - +
- +The State of Michigan Response
  - +How does a state such as Michigan respond to this
  - +challenge...to an age of knowledge in an intensely
  - +competitive global economy?
  - +Governor Blanchard, along with many other leaders from
  - +both the public and private sector, have recognized
  - +that as we look to the knowledge-intensive future of Michigan,
  - +it will be our great research universities,
  - +our principal sources of knowledge and
  - +the educated people who can apply it,
  - +that will hold the key to our collective prosperity.
  - +Further, they have recognized that success will depend upon
  - +building unique partnerships...
  - +...a Michigan team, if you will...
  - +In this partnership
    - +Universities must commit themselves to:

- +Strategically realigning activities into key thrust areas
  - +of major importance to State...
- +Attracting leading scientists, engineers, and professionals
  - +to staff these programs...
- +Developing new mechanisms for technology transfer...
- +State government must commit itself to:
  - +Establishing higher education in general!nd the state's
    - +research universities as a high priority
  - +Providing seed resources to sustain key thrust areas
  - +Developing level institutions to act as catalysts in these activities
- +The University must view itself as a partner with state
  - +government, business, industry, and labor in addressing
  - +the needs of the State of Michigan.
- +Service for New Age
  - +Of course, this strong coupling between the University and
    - +the society it serves is nothing new...
  - +Historically, the unique contribution of American public higher education
    - +
      - +the traditional mission of teaching and research.
  - +This service mission is central to our identity,
    - +our academic excellence and to our roots deep in the State of Michigan.
  - +It links us to the eight generations of Michigan citizens
    - +who have sacrificed to build this University into
    - +one of the world's great centers of learning.
  - +Of course the definitions of our mission and service have changed
    - +over the years as our society has changed..
      - +i) first as Michigan expanded to the frontier
      - +ii) then as it evolved through the industrial revolution
        - +to become the manufacturing center of the world
      - +iii) and now, once again, as it evolves once again into
        - +a knowledge-intensive society
  - +Hence as a university we are challenged
    - +once again to reinterpret and redefine
    - +our institution over the next decade
    - +to serve the people of the 21st century .....
    - +a time whose possibilities and challenges
    - +we can only dimly imagine.
  - +In a sense, during the next decade we face the challenge
    - +and the opportunity to re-invent the university to
    - +educate the citizens and serve the society of
    - +the 21st Century.
  - +At the University of Michigan we have never been
    - +aloof from the people we serve.
  - +These past few years have taught us,
    - +and the challenges of our future demand(of us,
    - +that we reach out even ore to work with other institutions

- +in government, corporations, schools, small business,
- +agriculture, in cities and towns to help solve our problems together.
- +More than ever before it is clear that we share a common fate
- +and must work even more closely together
- +to achieve our common aspirations.
- +It is in that spirit of deepening partnership
- +that we have worked with the leadership of the state, in government
- +and the private sector to address the issue
- +of creating a better future for Michigan.
- +It is with this vision of our responsibilities to the future
- +that the leaders of the University made a commitment
- +to give a priority to building the basic sciences at the University
- +and began planning for this magnificent Chemistry building.
- +And it was this vision and understanding that moved
- +the Governor and State Legislators, Michigan industry, its foundations,
- +and all of us will appreciate and benefit from
- +as will the students and scholars who follow after us.
- +For me it will symbolize what can be accomplished
- +not just here in Michigan but all across America
- +when our universities join with government,
- +and business, with schools and other institutions,
- +and the public to achieve great public purposes.
- +We thank all of those whose faith and support
- +have created this building for Science.
- +It will help us play our part in preparing
- +to meet the challenges and opportunities
- +that lie ahead in the new century.
- +Final Comments
- +Those of us who are scientists tend to associate the names
- +of places with the great intellectual achievements of our
- +disciplines...
- +Examples:
- +Cavendish Laboratories of Cambridge
- +Los Alamos Laboratory
- +
- +great scientific achievements occurring in this
- +building...
- +and note that the Dow Laboratories...
- +were the birthplace of many of the great discoveries
- +in 21st Century Chemistry.
- +Congratulations, ...thanks...
- +Oh, yes. I almost forgot...
- +Today we have been talking about the winning Michigan team
- +built by Governor Blanchard.
- +But there is another Michigan team that is very
- +much on our mind these days...

+...and that is the one build by General Bo!  
+Hence, perhaps one last comment is appropriate:  
+...Go Blue!!! (and beat Notre Dame)