

## **Solid State Lab**

### **WELCOME**

Welcome to Silicon Valley-East...  
or rather, Gallium Arsenide Gulch!!!  
since the facility we are dedicating  
today is designed to move far beyond  
the silicon chip...into entirely new  
areas of technology!

Today we are gathered together to  
take an important step into the future...

A step in which we dedicate an exciting  
new laboratory that will push to the very  
frontier of microelectronics itself...and  
beyond into an exciting new field  
known as optoelectronics in which  
light rather than electrons is used  
to transport information...a technology  
which many believe will be the  
microelectronics of the 1990s and beyond.

### **INTRODUCTIONS**

A number of distinguished guests have joined  
us today to participate in this occasion.

First, although he will speak a bit later in the  
program, let me introduce the Honorable  
James Blanchard, Governor of the State of  
Michigan.

I should note that this is Governor Blanchard's first  
visit to **his** building...the Electrical Engineering  
and Computer Science Building...since a  
tornado prevented him from dedicating the  
building when it was opened a year ago.  
As you will see later, this spectacular building  
is only one of many signs on this campus  
of the commitment shown by Governor  
Blanchard to make strong investments in  
higher education

Also in attendance today are:

Senator Lana Pollock,

Congressman Carl Pursell

Both friends of the University of Michigan  
who have been particularly strong and  
effective spokespersons for the interests  
of the State of Michigan.

Jerry Jernigan

Mayor of the City of Ann Arbor

This morning's ceremony is important for many  
reasons, but perhaps foremost among them is  
the degree to which it symbolizes the  
extraordinary progress that our State has made  
in recent years under the strong leadership  
of Governor Blanchard and other leaders of  
state government.

### **THE AGE OF KNOWLEDGE**

#### **The view from Michigan..."the Rust Belt"...**

While people generally look at the midwest

as the "Rust Belt", as a relic  
of America's industrial past, let me suggest that  
events such as today prove that we are instead  
leading the way toward America's future...  
For it is in the industrial midwest...in Michigan...  
that we are learning how to adapt to  
a brave, new world of intense international  
competition...  
In Michigan, we have learned how to deal with the  
challenge of dramatic economic change...

### **The Challenge of Change**

We have recognized that our  
Traditional industry economy is shifting to a new  
knowledge-based economy  
We have sensed transition in which..  
Intellectual capital will replace  
financial and physical capital  
as key to economic development  
We have responded to the challenge  
of developing an agenda to achieve  
sustain prosperity in a new environment of intense  
international competition and rapid technological change.  
We have developed an agenda for a new age...  
An Age of Knowledge in a Global Economy...  
And in this age, the major force behind economic  
change is knowledge, itself.  
and maintaining our competitive edge requires attention  
to our traditional strength -- people and ideas -- and  
a strong offensive strategy based on these resources.

### **The State of Michigan Response**

The Michigan Strategy  
Benefited from public leaders such as Governor Blanchard  
who recognized the challenge before us...  
had the vision to develop a forward-looking strategy to respond...  
and the courage and skills to implement this strategy...  
The goal: Michigan must become America's factory of the future...  
its source of emerging industrial technology...  
To position Michigan, they moved along three fronts:  
1. To enhance the growth of R&D in Michigan  
2. To accelerate the transfer of technology into Michigan industry  
3. To develop a strong coalition within Michigan among government,  
industry, labor, and universities to create a "venture culture"  
In this effort, they recognized the important of  
Michigan's research universities as the key  
sources of the knowledge essential for  
economic growth.  
Development of Unique State-University Partnership  
Governor Blanchard and his administration committed itself to:  
Establishing higher education in general and the state's  
research universities as a high priority  
Providing seed resources to sustain key thrust areas  
E.g., the Research Excellence Fund...  
\$25 into building key research areas within research universities  
Developing novel institutions to act as catalysts in these activities  
E.g.,

Industrial Technology Institute

(note dedication later this morning)

In return, the universities committed 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...

### **University of Michigan Actions:**

At Michigan we chose as our thrust areas...

Complex manufacturing systems

Machine Intelligence

Information Technology

Advanced electronics and optics technology

CAEOT -- The Center for Advanced Electronics and Optics

Technology, aimed at research into the marriage of electronics and  
optics -- laser on a chip. we built the most sophisticated laboratory in  
the nation specializing in ultra high speed, high frequency electronic  
devices and advanced electronic materials such as gallium arsenide.

It is this facility which we dedicate today...

### **INTRODUCTION OF GOVERNOR**

The renewed investment in higher education of recent years  
has taken extraordinary vision, courage, and determination  
on the part of Governor Blanchard, his administration,  
and the Michigan State Legislature, particularly during a period  
with many other competing demands and pressures.

It is my pleasure to introduce the Governor:

### **INTRODUCTION OF CHUCK VEST**

### **CONCLUDING REMARKS**

#### **Already clear evidence of payoff...**

1. Semiconductor Research Corporation Center
2. DOD URI Center of Excellence
3. NCMS
4. NASA Center for Space Commercialization
5. EXPRES
6. and other victories for Michigan...to be announced soon...

#### **Michigan is on the move!**

Michigan is on the move!

Under the strong leadership of Governor Blanchard and his team,  
Michigan has taken strong steps to provide its business and  
industry with the knowledge-based resources so essential  
to our long term well-being and prosperity.

It has taken actions to provide the people and the ideas...  
the outstanding graduates, scientists, and engineers;  
doctors, lawyers, teachers, and other professionals;  
the leading edge research and service activities.

The state has assembled its tremendous assets and its 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 the state 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...