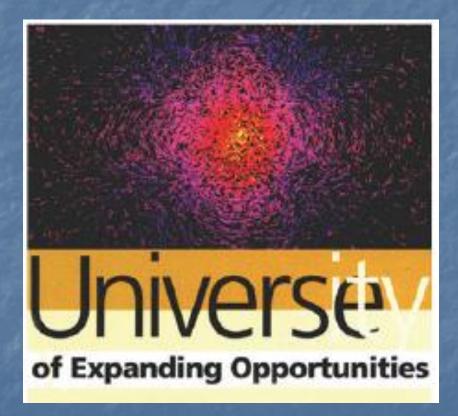


# Chemical Engineering PURDUE UNIVERSITY



2007

### about 50 years ago





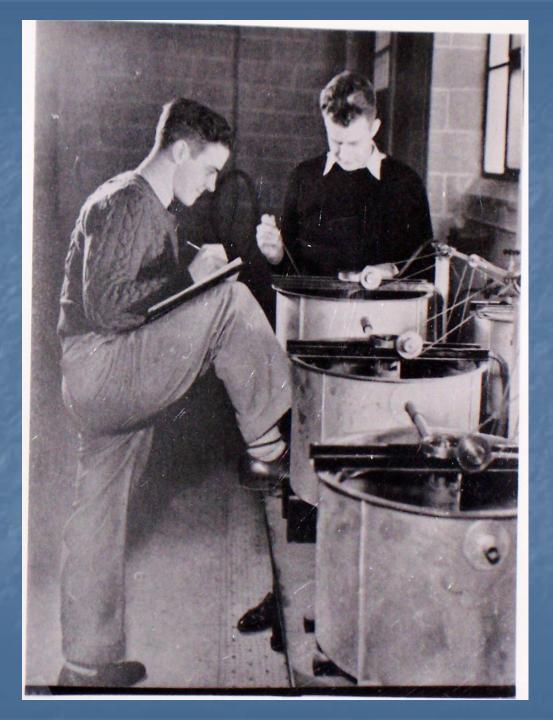
R. N. Shreve (1885-1975) (Head, 1947-51)

### Dean Potter -Cornerstone Dedication CMET, 1939

### **CMET Building ~ 30 years ago**



### Metallurgy Option -1940



Mixing Study – C.L. Lovell, 1941



#### BSChE Curriculum Centennial Celebration

April13 2007

The School of Chemical Engineering is proud to celebrate a century of progress and achievement in chemical engineering education.





#### "Evolving Trends in ChE Undergraduate Education: Opportunities and Challenges"

#### **Speakers**



W.N. Delgass Professor of Chemical Engineering, Purdue "Historical Remarks about the Evolution of Purdue ChE"



S.P. Beaudoin

Professor of Chemical Engineering, Purdue "Recruitment and Retention: New Approaches"



L.H. Jamieson John A. Edwardson Dean of Engineering, Purdue "Innovative Trends in Undergraduate Engineering Education"

### **Panel Discussion**

Evolving Trends in ChE Undergraduate Education: Opportunities and Challenges

Tim Anderson Jim Hill Rick Roberts Ronna Robertson Phil Wankat Professor & Associate Dean, Chemical Engineering U of Florida University Professor & Chair, Chemical Engineering, Iowa State U Senior Vice President, Manufacturing Chevron Phillips Chemical Company Engineering Manager DuPont Corporation Clifton L. Lovell Distinguished Professor, Chemical Engineering, Purdue

**Rex Reklaitis** (Moderator)

Edward W. Comings Professor of Chemical Engineering, Purdue



AT HE L

ALC: NO.

٦



# **Chemical Engineering Faculty**



Rakesh Agrawal Sc.D., MIT, 1980



Osman Basaran Ph.D., Minnesota, 1984



Chelsey D. Baertsch Ph.D., UC - Berkeley, 2001



Stephen P. Beaudoin, Ph.D., NCState, 1995



James M. Caruthers Sc.D., MIT, 1977



David S. Corti Ph.D., Princeton, 1997



W. Nicholas Delgass Ph.D., Stanford, 1969



Elias I. Franses Ph.D., Minnesota, 1979



Robert E. Hannemann M.D., Indiana, 1959



Michael T. Harris Ph.D., Tenn.-Knoxville, 1992



Hugh W. Hillhouse Ph.D., Massachusetts, 2000



Nancy W. Y. Ho Ph.D., Purdue



R. Neal Houze Ph.D., Houston, 1968

## **Chemical Engineering Faculty**



Sangtae Kim Ph.D., Princeton, 1983



Gil Lee Ph.D., Minnesota, 1992



Julie Liu Ph.D., CalTech, 2006



James D. Litster Ph.D., University of Queensland, 1985



John A. Morgan Ph.D., Rice, 1999



Gintaras V. Reklaitis, Ph.D., Stanford, 1969



Joseph F. Pekny Ph.D., Carnegie Mellon, 1989



Fabio H. Ribeiro Ph.D., Stanford, 1989



R. Byron Pipes, Ph.D., Texas-Arlington, 1972



Doraiswami Ramkrishna Ph.D., Minnesota, 1965



Arvind Varma Ph.D., Minnesota, 1972



Kendall T. Thomson Ph.D., Minnesota, 1999



Venkat Venkatasubramanian Ph.D., Cornell, 1984



Nien-Hwa Linda Wang Ph.D., Minnesota, 1978



Phillip C. Wankat Ph.D., Princeton, 1970



You-Yeon Won Ph.D., Minnesota, 2000



Lyle F. Albright Ph.D., Michigan, <u>1950</u>



Robert A. Greenkorn Ph.D., Wisconsin, 1957

### **Emeritus Faculty**



Ronald P. Andres Ph.D., Princeton, 1962



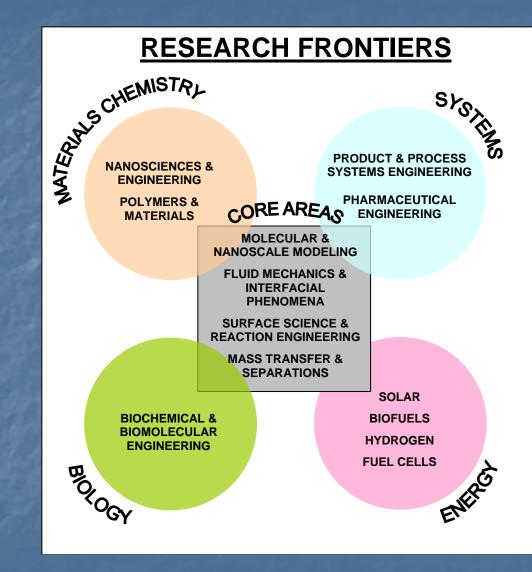
Robert G. Squires Ph.D., Michigan, 1963



Kwang-Chu Chao Ph.D., Wisconsin, 1956



George T. Tsao Ph.D., Michigan, 1960



Congratulations to Rex Reklaitis for Nomination to the National Academy of Engineering





2007 Team Excellence Award College of Engineering Purdue University Discovery Informatics Team

#### **ChE Faculty Honored:**

- Chelsey D. Baertsch
- James M. Caruthers
- W. Nicholas Delgass
- Hugh W. Hillhouse
- Fabio H. Ribeiro
- Kendall T. Thomson
- Venkat Venkatasubramanian

### **Congratulations!**



#### <u>Rakesh Agrawal</u>

**IRI Achievement Award** 



#### Chelsey D. Baertsch

**NSF** Career Award



#### Stephen P. Beaudoin

Omega Chi Epilson Outstanding Mentor Award

**Purdue University Scholar** 



#### W. Nicholas Delgass

**Maxine Spencer Nichols Professor** 

Shreve Award for Outstanding Teaching, Purdue



#### <u>Hugh W. Hillhouse</u>

**NAE Frontiers of Engineering Symposium** 



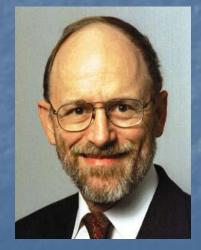
#### <u>Nancy W. T. Ho</u>

**President's State of the Union Address Honoree** 



#### Joseph F. Pekny

"One Brick Higher" Award, Purdue



#### <u>Phillip C. Wankat</u>

**Distinguished Education Alumni Award of Distinction, Purdue** 



## Alumni Honors

Honorary Doctorate
Distinguished Engineering Alumni
Outstanding Chemical Engineers
AIChE Awards
Other Awards

# Honorary Doctorate in Engineering

Vern W. Weekman Jr. (B.S. '53, Ph. D. '63)

Lecturer in Chemical Engineering Princeton University Director of Corporate Central Research (Ret.) Mobil Oil Corporation National Academy of Engineering





### 2007 Distinguished Engineering Alumni Chemical Engineering



Michael H. Ott (B.S. '74) President Polysciences



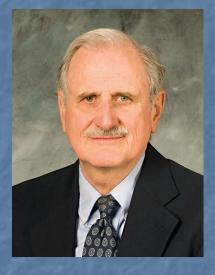
Rick Roberts (B.S. '76)

Senior Vice President of Manufacturing Chevron Phillips Chemical Company



# 2007 Outstanding Chemical Engineers





Pierre R. Latour (M.S. '64, Ph. D. '66) President CLIFFTENT, Inc. Duncan A. Mellichamp (Ph. D. '64)

Emeritus Professor of Chemical Engineering University of California, Santa Barbara



# First "Outstanding Chemical Engineer" Convocation

1993



## AIChE Awards



### Alpha Chi Sigma Award for Chemical Engineering Research

Antonios G. Mikos (Ph.D. '88)



Particle Forum Lectureship Award Jennifer Sinclair Curtis (B.S. '83)

## **Other Awards**



#### **ASEE Sharon A. Keillor Award for Women in Engineering Education**

Julia M. Ross (B.S. '90)



## 2007 Kelly Lecture



**Manfred Morari** Head, Automatic Control Laboratory Swiss Federal Institute of Technology, Zurich

#### "Control of Hybrid Systems: Theory, Computation and Applications"

Tuesday, March 27, 2007 at 3:30 PM in FRNY G140

**"Beyond Process Control"** Wednesday, March 28, 2007 at 11:30 AM in FRNY G140





**School of Chemical Engineering** 







### ChE Academic Advisory Board

### **Alexis Bell**

Warren and Katharine Schlinger Distinguished Professor UC Berkeley

### Ignacio Grossman

Rudolph R. and Florence Dean University Professor of Chemical Engineering, Carnegie-Mellon

#### Michael Ramage

**Executive Vice President, ExxonMobil, Retired** 

#### **Gregory Stephanopoulos**

**Bayer Professor of Chemical Engineering, MIT** 

### **Matthew Tirrell**

Richard A. Auhll Professor and Dean of Engineering, UC Santa Barbara

## Academic Advisory Board







INFLUE NCE

### **NEW DIRECTIONS**

ACHIEVE

### **Industrial Advisory Council**

School of Chemical Engineering

INNOVATE

Working together to create an educational environment to prepares today's chemical engineering students for the 21st century





## **New Directions** Industrial Partners



PRODUCTS 🚣 Air Products and Chemicals Inc.



Anheuser-Busch, Inc.



BP Pic.



Chevron Phillips Chemical Company



Dow Chemical Company



Lilly and Company

### ExonMobil Exxon Mobil Corporation

Simberly-Clark Kimberly-Clark Corporation

LUBRIZOL Lubrizol Corporation

**LYONDELL** Lyondell Chemical Company



onalises stated National Starch & Chemical Corp.



P&G Procter & Gamble Company



Shell Oil Company

## Graduate Student Organization

President **Vice President Voting Representative First Year Representative Social Committee Chair PGSG Senator** 

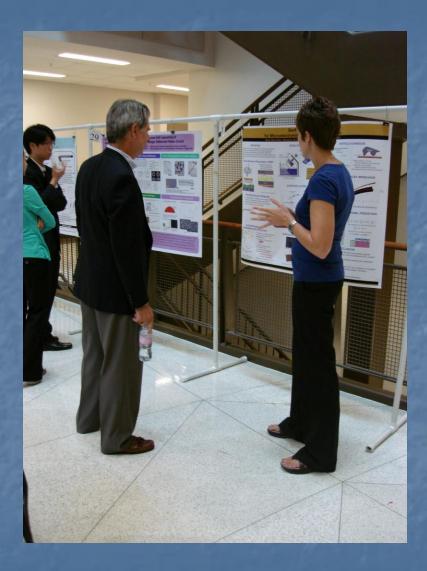
**Bri-Mathias Hodge Chris Polster Dana Gary Intan Hamdan Michelle Chaffee Predeep Suresh** 



16th Annual Chemical Engineering Graduate Research Symposium

August 15 – 16, 2007



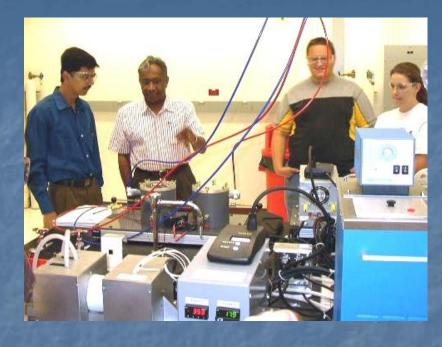


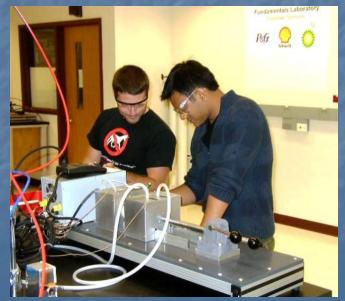




## Fundamentals Lab

## Our second year ....











## Purdue University Chapter of AIChE

President

**Rochelle Chism** 

Vice President – Internal AffairsJohn DouglasVice President – External AffairsDavid HannaSecretaryJeff Livarchik

Treasurer

**Dan Logsdon** 





REBOILER

Brought to you by the Purdue Chapter of the American Institute of Chemical Engineers

#### February 2007

Christopher J. Carr-Editor

#### AIChE All the Time By: Jossica Moore, AICHE President

Hello everyonel Hope the beginning of your Spring Semester is going great. And whether your answer was yes or no, AIChE is here to help. Every semester AIChE tries to hold numerous events for the students, to keep everyone active and meeting new chemical engineers, faculty, and professionals. Just a over a month into the semester, AIChE has had many events including salsa dance lessons, co-ed intramural basketball, a Relay for Life fundraiser, and student/faculty luncheon – and there's more to come.

Needless to say, there is plenty going on and we want everyone to get involved so that Purdue continues to be an Outstanding Student Chapter (which we were awarded at this years' National Conference held in San Francisco). There will be many opportunities to participate and be an active member. One of the big events will be our trip to the Regional Conference, to be held at University of Illinois-Champagne/Urbana on March 30-April 1. We will be looking for a rather large group to go to the conference and represent Purdue; it will definitely be a fun weekend and be a memorable time for anyone who goes. Be on the lookout for petitions in upcoming weeks! And if you cannot attend the conference, make sure to come to the general meetings and other events posted around FRNY.

Make sure to become a member if you haven't done so already, and keep updated with the weekly events by checking out the AIChE Condenser. See you soon :)

#### Announcements From AIChE

#### Social Athletic:

Keep an eye out for upcoming events including Ice Skating, Intramural Wallyball, Intramural Basketball Playoffs, Bowling Night, Indoor Soccer, Movie + Pizza Night, and a Poker Tournament.

#### Industrial Relations:

The Industrial Relations Committee is currently seeking company information for a comprehensive binder. We would like to compile an informative source for those looking for information on companies, including what the interview was like. If you had an interview with a particular company, please send us information about the style of the interview (i.e. technical or behave oral), as well as any information you find useful concerning that company. This can be sent to either nbrandon@purdue.edu or jnader@purdue.edu. Your help is greatly appreciated, thanks!

Also, Keep an eye out for more info sessions this semester with Celanese, ADM, Solae Company, and Dow Corning Also, we will be holding general member meetings including one with the Indy Chapter of AIChE.

#### Philanthropy:

Philanthropy is gearing up to recruit members for multiple "Relay for Life" teams! More fundraisers and announcements on that soon.

Inside	1 hre	1 cesso

 Who's Who in AICHE: The
 Who's Who in AICHE: The
 Games and Horoscopes
 Answers to Games

 Executives
 Committees
 Page 10-11
 Page 12

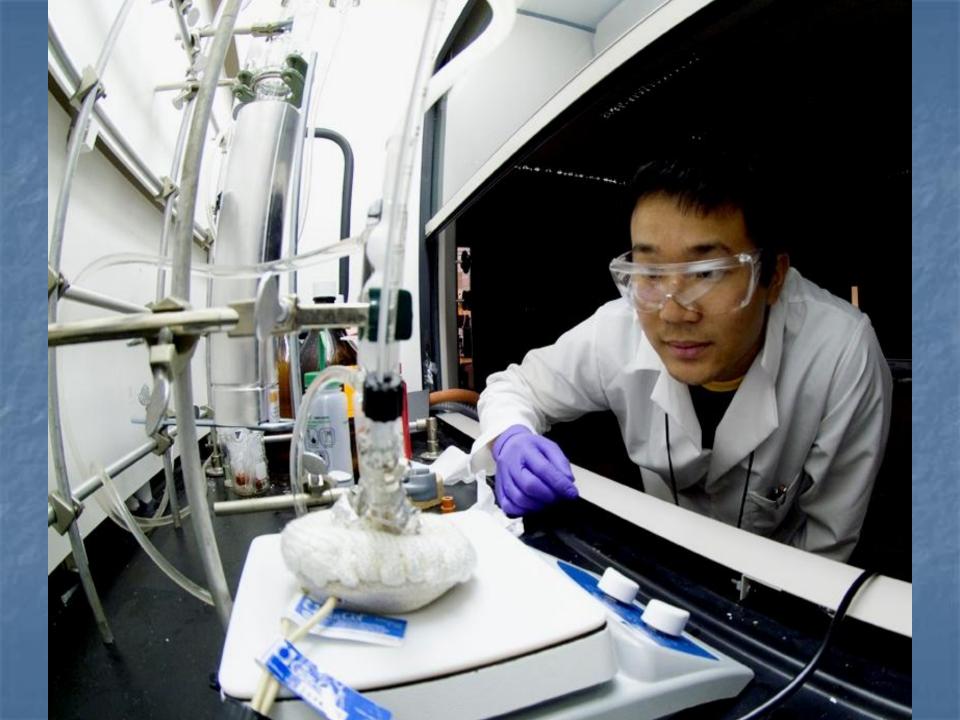
# Around the School...





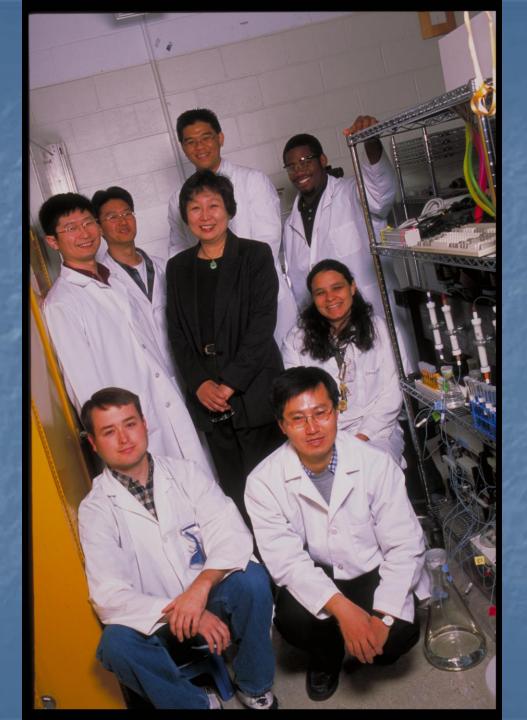














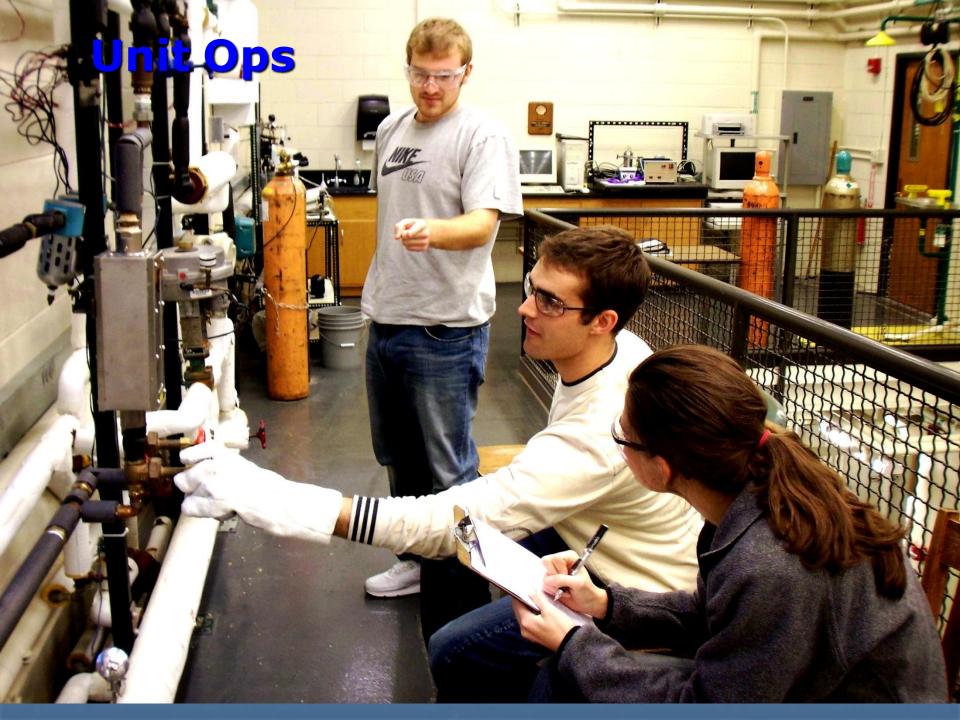
## Unit Ops

C

C.C.

HIGH





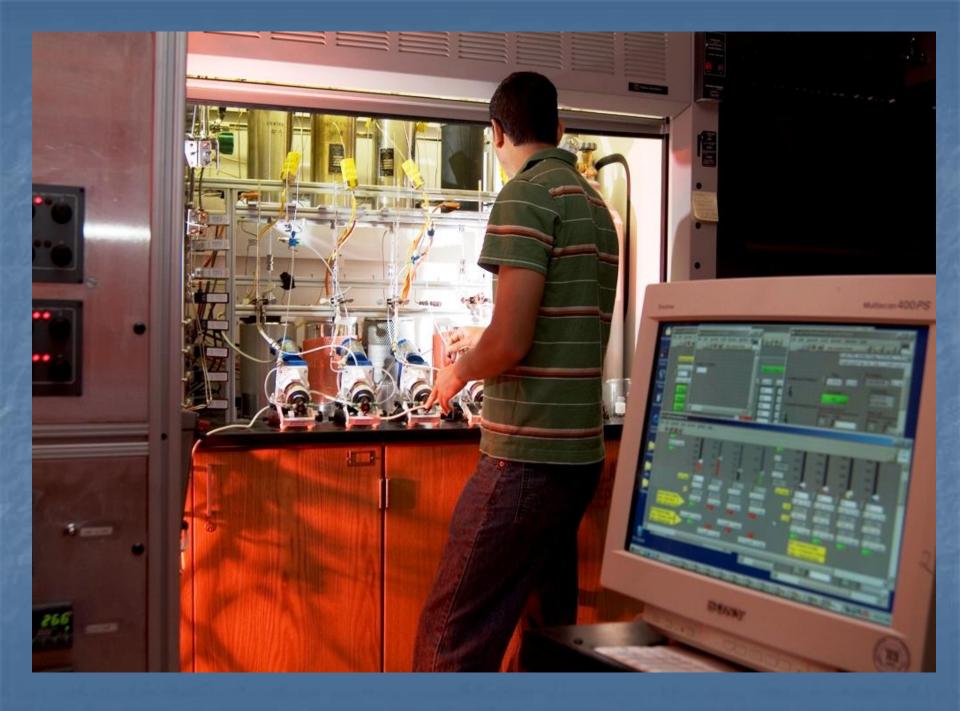
## **Unit Ops**

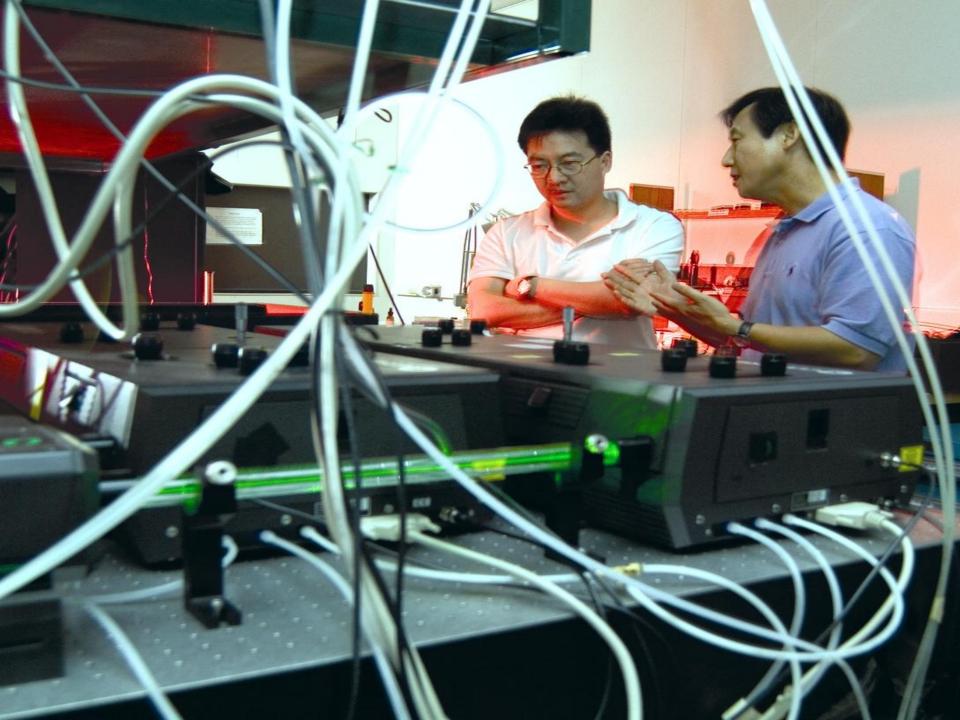
F







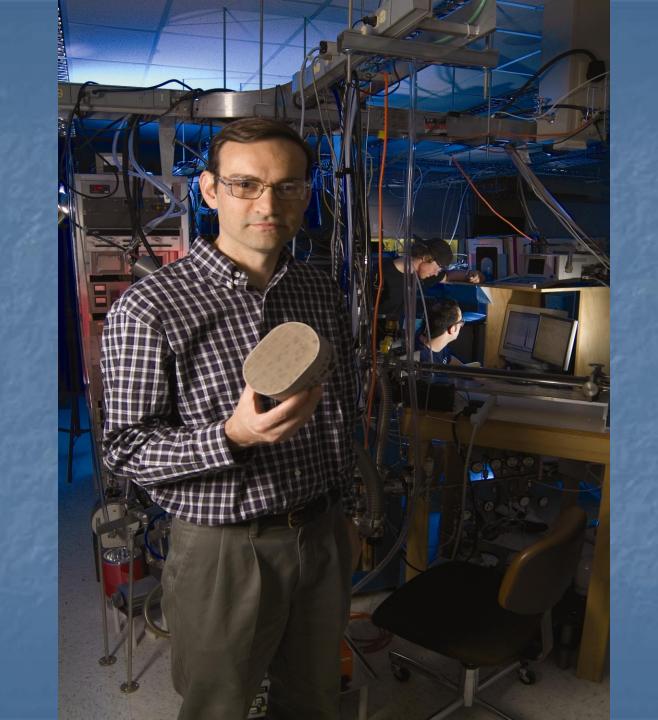






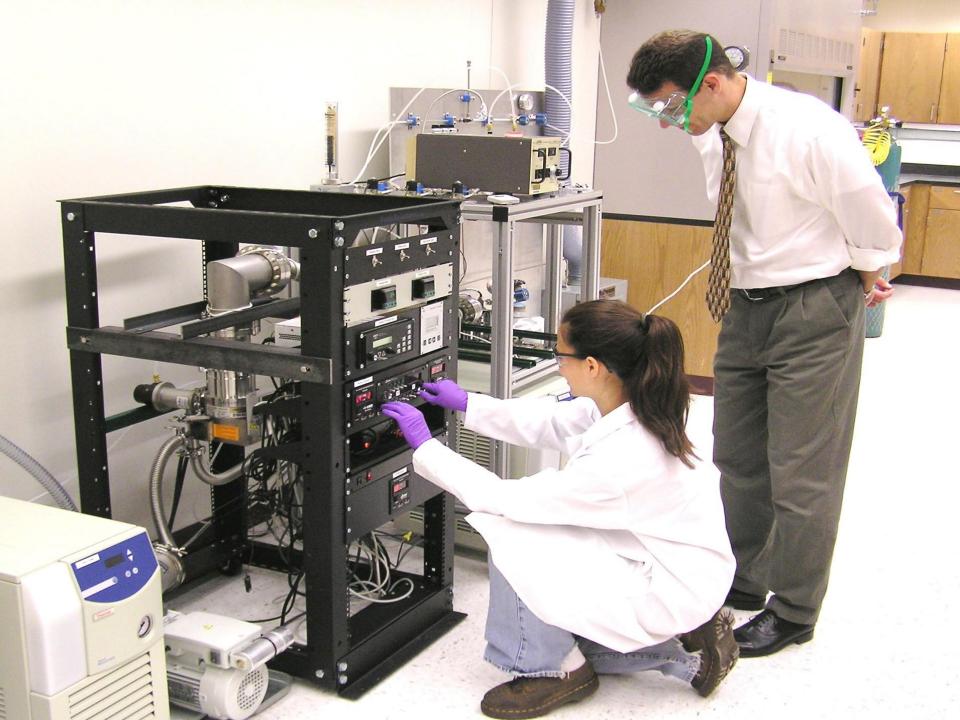


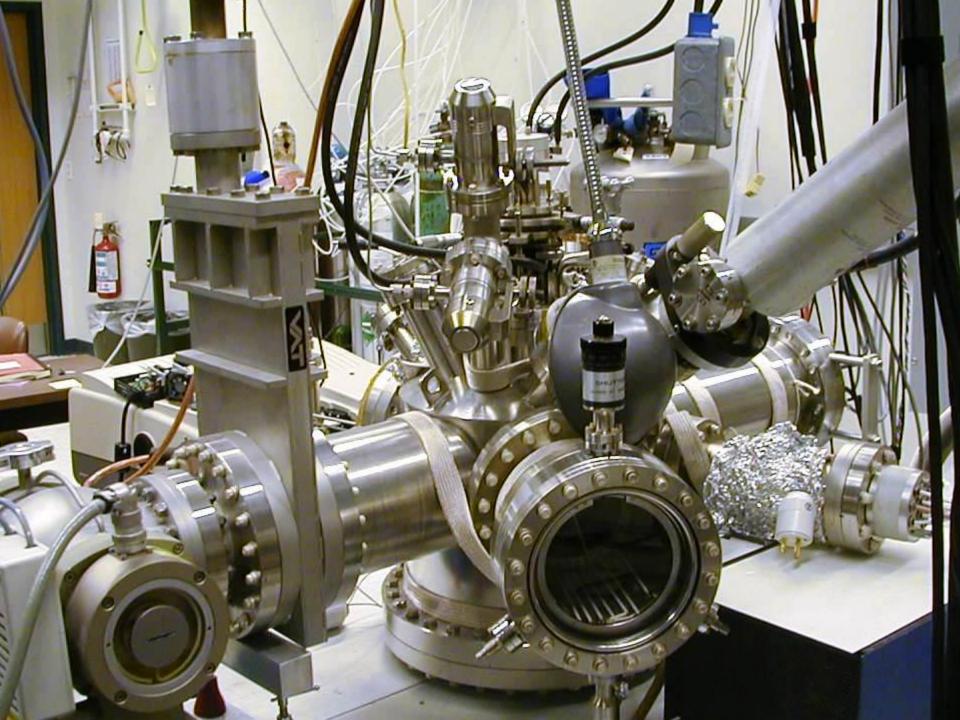


























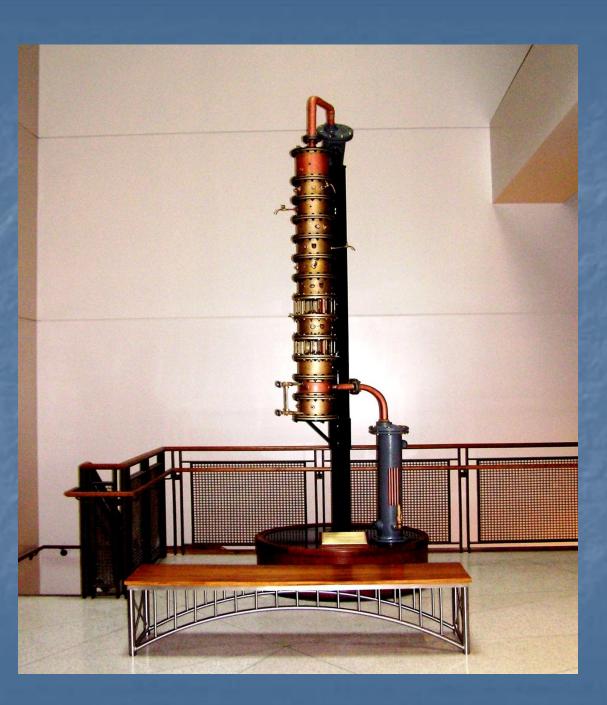








## "Old Faithful"





## The next step...

Renovation Phase 2

