

Advanced Materials: Driving Transformative Research in Energy & Automobiles

Sunday, May 1

10:00 AM – 6:00 PM

Registration
Location: Clara

12:00 PM – 2:30 PM

New Chairs Workshop
Location: Salon I
*Led by Mark Benvenuto,
University of Detroit Mercy*

2:30 PM – 3:00 PM

Break
Location: Salon IV

3:00 PM – 5:00 PM

Sector Sessions:

**Chemistry Department
Representatives**
Location: Salon I
*Led by Matthew Sanders,
University of Wisconsin*

**Chemical Engineering
Department Representatives**
Location: Salon II
*Led by Mark McCready,
University of Notre Dame*

**Industry and Government
Lab Representatives**
Location: Salon II
*Led by Kelly O. Sullivan,
Pacific Northwest National Lab
& Randy Guschl, DuPont*

5:00 PM – 5:30 PM

First Timers' Orientation
Location: Salon II

5:30 PM – 6:30 PM

Opening Reception & Welcome
Location: Ambassador Room

7:00 PM

Buddy Dinners (Dutch Treat)

Monday, May 2

7:00 AM – 5:30 PM

Registration
Location: Clara

7:00 AM – 8:00 AM

Continental Breakfast
Location: Ambassador Room
Sponsored by Nalco

8:00 AM – 11:45 AM

Plenary Session 1
Location: Plaza Ballroom

Welcome and CCR Update
Terry Ring, 2011 Chair,
CCR Governing Board

International Year of Chemistry
Nancy Jackson, 2011 President, ACS

**House Science, Space &
Technology Committee Update**
Honorable Hansen Clarke (MI-13), US
House of Representatives

10:00 AM – 10:15 AM

Break
Location: Plaza Prefunction

**Materials Challenges in
Energy & Energy Storage**
Eric A. Rohlffing, Dir, Chem, Geo, and
Bio Sciences Div, DOE BES

**Materials Challenges Facing the
Automotive Industry**
Anil Sachdev, Group Manager, Light
Metals, General Motors Corp.

11:45 AM – 12:00 PM

**2011 Research Collaboration
Award Presentation**
Location: Plaza Ballroom
**"Development and
Implementation of High-Level Salt
Waste Processing Technology"**
*Savannah River National Laboratory
(SRNL), Oak Ridge National Laboratory
(ORNL), Argonne National Laboratory
(ANL), Pacific Northwest National
Laboratory (PNNL), Idaho National
Engineering Laboratory (INEL), Savannah
River Remediation (SRR), Parsons
Engineering, General Atomics, IBC
Advanced Technologies, University of
South Carolina*

12:00 PM – 1:00 PM

Lunch
Location: Ambassador Room
Sponsored by Arkema, Inc.

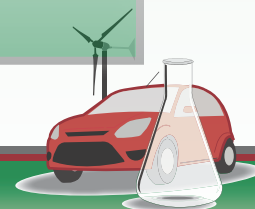
1:00 PM – 2:00 PM

Plenary Session 2
Location: Plaza Ballroom

**Materials Issues in
CO₂ Sequestration**

About the Malcolm E. Pruitt Award

In 1979, Mac Pruitt – then VP for Research at the Dow Chemical Company – convened a meeting of leading research executives from the nation's major chemical companies and research universities. His goal was to enhance trust and collaboration between the public and private sector research communities. The Pruitt award is given by CCR each year to recognizing an outstanding individual for advancing the chemical enterprise through collaborative service.



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Cynthia Powell, R&D Director,
National Energy Technology Lab

Carbon Sequestration

Dr. James F. Wood, Deputy Asst.,
Secretary for Clean Coal, DOE

2:00 PM – 4:45 PM

Federal Funding Agency Forum

Session Chair: Matt Tarr, University of
New Orleans

National Science Foundation

Matt Platz
Linda Sapochak
John McGrath

National Institute of Health

Bill Heetderks

National Institute of Food & Agriculture, USDA

Mark Poth

3:15 PM – 3:30 PM

Break

Location: Plaza Prefunction

Department of Energy BES

Eric Rohlfing

National Institute of Standards & Technology

Don Archer

4:45 PM – 5:30 PM

Action Networks Meetings & Strategy Sessions

*Learn about current projects and
brainstorm new initiatives.
Everyone welcome!*

Long Range

*Mission: To profoundly influence the
success of chemistry-related science and
engineering research in serving society.*
Location: Salon I

Research Collaboration

*Mission: To lead projects that generate
mutual interaction, understanding, and*

About CCR

CCR is a not-for-profit organization whose members are companies, universities and government laboratories that conduct research in chemistry, chemical engineering and related disciplines in the US. Member Representatives are influential leaders who can make personal and organizational commitments to ensure that chemistry-related research fulfills its potential in creating a better world. Smaller companies and international organizations can also participate in CCR activities as Affiliate Members.

*assistance across sector, discipline and
organizational boundaries.*

Location: Salon II

Research Investment

*Mission: To advocate for Federal policies
and budgets that support the US chemical
enterprise in all sectors (academic,
government, and industrial)*
Location: Plaza Ballroom

Graduate Education

*Mission: To provide opportunities
for graduate students and educators
to gain interdisciplinary and
sector perspectives.*
Location: Salon III

6:30 PM – 9:00 PM

Dinner & Tour

at the Ford Rouge Factory

Including the Legacy Theater, Art of
Manufacturing Theater, Observation
Deck, and a 360-degree look at how
Ford F-150's are made.

Location: Hotel Lobby Entrance
Bus departs 6:15, 6:45, 7:15

*Sponsored by
The Dow Chemical Company*

**Bus Departs 6:15 PM, 6:45 PM,
7:15 PM...and will make continuous
half hour loops from the Ford
Rouge to The Henry until 9:30 PM.**

Tuesday, May 3

7:00 AM – 6:00 PM

Registration

Location: Clara

7:00 AM – 8:00 AM

Continental Breakfast

Location: Ambassador Room
Sponsored by Nalco

8:00 AM – 12:30 PM

Plenary Session 3

Location: Plaza Ballroom

Automotive Light Weighting Challenges and Opportunities

Hal L. Snyder, Technical Director,
DuPont

Developing Low Cost Carbon Fiber for Automotive Lightweight Composites

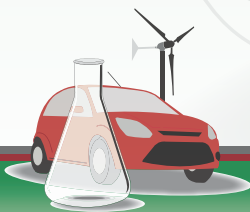
Amit K. Naskar, Polymer Matrix
Composites Group, Oak Ridge
National Lab

Battery Materials

Bart Riley, Founder, VP of R&D and
CTO, A123 Systems

Battery Materials

Ann Marie Sastry, Professor, Materials
Science & Engineering, Univ of MI



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10:00 AM – 10:15 AM

Break

Location: Plaza Prefunction

Materials for Energy Storage

Jun Liu, Laboratory Fellow, Pacific Northwest National Lab

Materials for Photovoltaics

Om Nalamasu, Chief Technical Officer, Applied Materials, Inc.

Materials for Photovoltaics

David Ginley, Research Fellow, National Renewable Energy Lab

12:30 PM – 1:30 PM

Lunch

Location: Ambassador Room

1:30 PM – 1:45 PM

CCR Business Meeting

Location: Ambassador Room

2:00 PM – 3:15 PM

Plenary Session 4

Location: Plaza Ballroom

Rare Earth Metals and their Replacement

Karl A. Gschneidner, Senior Metallurgist, Ames Laboratory

Meeting the Global Rare Earth Challenge: Molycorp's Fully Integrated Mines to Magnets Manufacturing Supply Chain

John Burba, Executive VP & CTO, Molycorp

3:15 PM – 3:30 PM

Break

Location: Plaza Prefunction

3:30 PM – 5:00 PM

Plenary Session 5

Location: Plaza Ballroom

Venture Capital & Innovation

Ganesh "Ananth"
Ananthasubramanian of DTE Energy Ventures

Financial Challenges facing Public Research Universities: Confessions of a Former Dean

Matthew S. Platz, Director, Chemistry Division, National Science Foundation

Report on CCR's CTO Roundtable on Graduate Education

Kelly O. Sullivan, Director, Institutional Partnerships, Pacific Northwest National Lab

Gary Calabrese, VP & Portfolio Director, Corning, Inc.

5:00 PM – 6:00 PM

Action Networks Breakout Sessions

Research Investment

Topics: *US job creation in the chemical enterprise, and developing legislative action skills.*

Location: Salon I

Graduate Education

Topic: *Opportunities and challenges identified by CCR's CTO Roundtable on Graduate Education.*

Location: Salon II

Long Range Issues

Topic: *Rare earths – chemistry's role in addressing rare earth challenges, critical gaps in the national plan, and developing sustainable, economic solutions.*

Location: Salon III

6:00 PM – 6:30 PM

Networking Time

6:30 PM – 7:00 PM

Pruitt Award Reception

Location: Ambassador Room

7:00 PM – 9:30 PM

Pruitt Award Dinner

Location: Ambassador Room

In honor of 2011 Pruitt Award recipient, Ronald W. Rousseau, School of Chemical & Biomolecular Engineering, Georgia Institute of Technology

Location: Ambassador Room
Sponsored by Corning, Inc.

2011 Annual Meeting Program Committee

Chair – Wayne Ranbom, Arkema

Mark Benvenuto,
University of Detroit Mercy

Michael Blaustein, DuPont

Eric Lin, NIST

Chuck Manke, Wayne State

Michael Nowak, NETL

Eric Peterson, Idaho National Lab

Michael Reynolds, BASF

Matt Tarr, University of New Orleans

Bob Wickman, BASF

2011 Annual Meeting Sponsors

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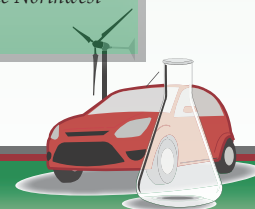
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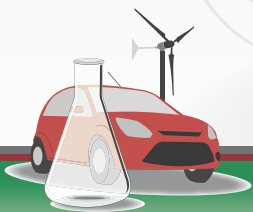
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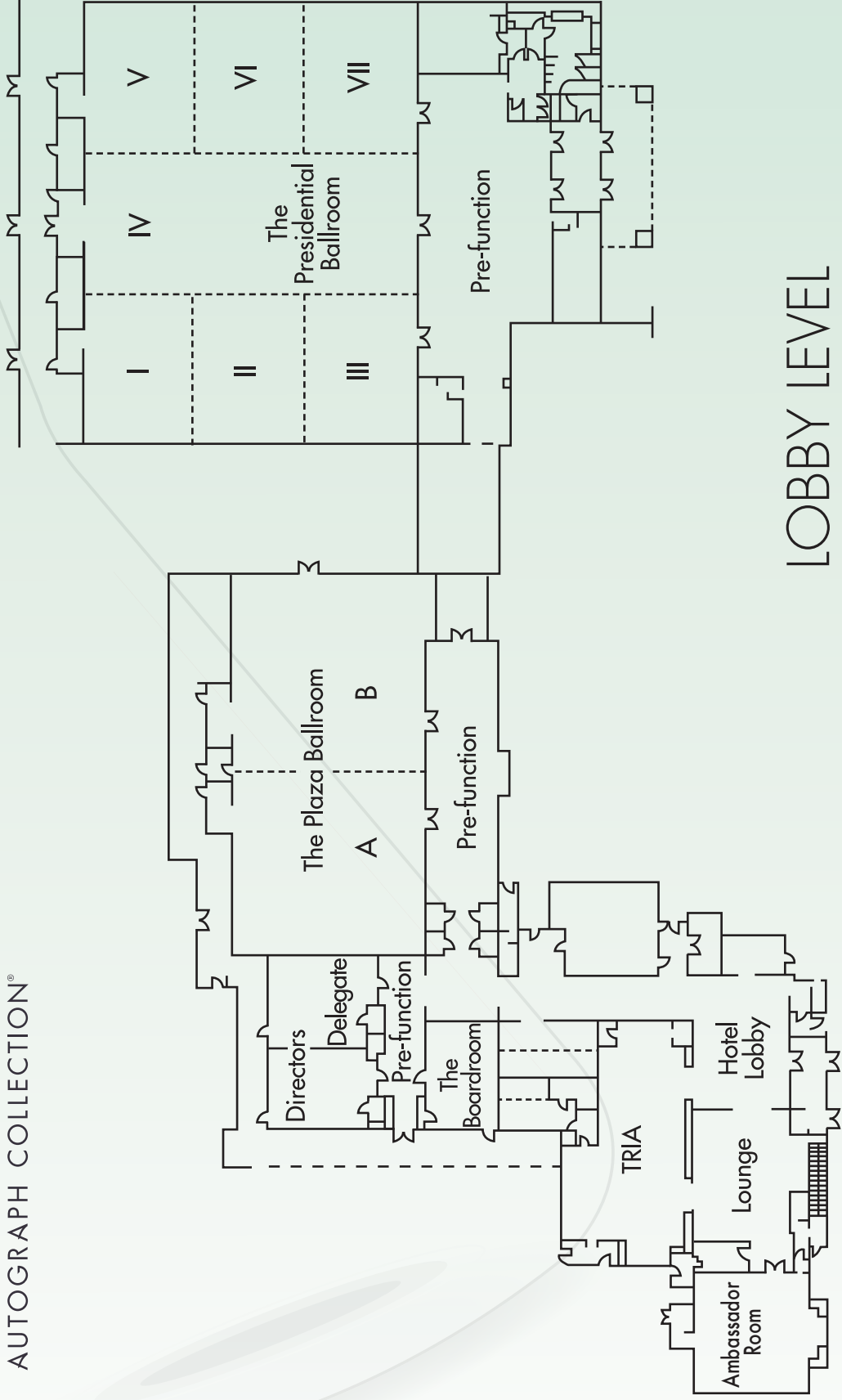
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