Council for Chemical Research

Advancing the Chemical Research Enterprise through Collaboration

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CCR – Opening Doors to Collaboration & Innovation

"Open-market innovation…in essence, a company gets lower cost, higher quality ideas from the best sources in the world, allowing it to refocus its own innovation resources where it has competitive advantage."

Two Consultants at Bain & Co., Market Place Ideas, Wall Street Journal, Dec. 2002.

"Open Innovation means that companies should make much greater use of external ideas and technologies in their own business, while letting their unused ideas be used by other companies…With a more open business model, Open Innovation offers the prospect of lower costs, faster times to market and the chance to share risks with others."

Henry W. Chesbrough - Open Innovation: The New Imperative for Creating and Profiting from Technology

Today's dynamic, decentralized and fast-paced chemical R&D landscape makes the mission of **The Council for Chemical Research** more crucial than ever:

"Improving Chemical Innovation Through Collaboration & Advocacy."

It has become imperative for anyone engaged in research and innovation to be able to quickly and effectively tap into the widest possible network of technology and innovation. By becoming part of the CCR, members gain instant access to an established and influential organization of key leaders in industry, academia and government. For over three decades, CCR has been bringing together the major players in US chemical R&D to maximize their return on investment and keep the US chemical industry competitive in an increasingly global economy.

The Council for Chemical Research was created to promote networking and partnerships among industry leaders. CCR offers a number of **unique member benefits**:

- **Access to a proven research leadership network:** Throughout the year, CCR facilitates a variety of events – large and small – that focus on giving members "the Big Picture." Meetings, workshops, roundtables and our Action Networks keep members on top of what really matters in the field of chemical research.
- **Enhanced collaboration opportunities:** Joining CCR opens doors across the U.S. and around the world. CCR events and the CCR membership list are invaluable networking tools for those who need to be at the forefront of chemical R&D.
- **Impact in Washington on key science and technology issues:** CCR is an influential voice in Congress and among the many federal agencies that fund and direct U.S. chemical research. CCR staff and volunteers work constantly to advocate for more investment in U.S. chemical manufacturing and R&D.
- **Joint efforts on economic impact of R&D:** CCR has been publishing ground-breaking studies on the societal return on investment on chemical R&D since 2001.
- **Industry driven topical conferences:** CCR members get substantial registration discounts when they attend the CCR Annual Meeting, New Industrial Chemistry & Engineering (NIChE) Conference, and other CCR workshops held throughout the year.
- **Access to S&T talent:** CCR's Action Network to Enrich Graduate Education ensures the US chemical manufacturing industry will continue to have access to world-class research and engineering talent.

Future benefits will include:

- **Enhanced capabilities to support collaborative research:** Expanded membership database and website search capabilities will foster partnership opportunities.
- **Extending the CCR network to:** Innovative start-up companies, more international companies and universities, and companies and university departments outside the traditional chemical disciplines.

CCR Studies Show That:

Chemical R&D Provides Excellent Return on Investment

- Chemical companies get $2 of operating income for every $1 of R&D invested
- Chemical technology is highly dependent on publicly funded chemical science research

Chemical R&D Powers the U.S. Innovation Engine

- U.S. economy gains roughly $40 in GDP growth and $8 in increased tax revenues for every dollar of federal investment in chemical sciences research
- Technology quality, innovation speed and strong scientific links deliver greater shareholder value
- All industries are significantly impacted by the chemical sciences. It is the most enabling science and technology
- The big opportunity is to reduce the innovation time lag from initial public research funding to commercialization

The Council for Chemical Research

CCR is a not-for-profit organization created in 1979 when Mac Pruitt, then VP for Research at the Dow Chemical Company, convened the first meeting of research executives from the nation's major chemical companies and research universities. His goal was to improve the trust and collaboration between the public and private sector research communities. Networking and collaboration – both within and across sectors and disciplines – continue to be CCR's primary purpose.

CCR members are companies, universities, and government laboratories that conduct research in chemistry-related science and engineering in the US. Small companies and sister organizations in other countries may join as affiliate members. Members' research activities represent a combined US R&D budget of more than $7 billion.

Mission

- Improving Chemical Innovation through Collaboration and Advocacy

Core Values

- Chemical research is essential to progress
- Research is central to education and key to discovery and innovation
- Chemical science and engineering impacts many disciplines
- Collaborative approaches deliver maximum leverage

Goals

- Advance research collaborations
- Advocate for research investment
- Enrich graduate education
- Address long-range issues facing chemical and related industries

CCR Strengths

- Nexus of three sectors of the chemical research enterprise
- Unique gathering of research leaders who can act on ideas and proposals
- Fostering collaboration – through networking, culture sharing, and addressing challenges
- Platform for discussion of big picture issues - Annual Meeting with high level industry, government and academic representatives
- Graduate education focus - Curriculum, immigration, employment, faculty recruiting
- Long range research focus - roadmapping; R&D Impact Studies

CCR Annual Meetings

- CCR 36th Annual Meeting: May 4-6, 2015, Arlington VA
  Disruption: Impacts and Opportunities for the Chemical Enterprise

- CCR 35th Annual Meeting: May 18, 2014, Arlington VA
  Chemical Research in 2050

- CCR 34th Annual Meeting: May 19-21, 2013, Arlington VA
  Advancing Innovation: Breaking Boundaries, New Frontiers

- CCR 33rd Annual Meeting: May 20-22, 2012, Dearborn, MI
  21st Century Challenges and Innovation in the Chemical Industry

- CCR 32nd Annual Meeting: May 1-4, 2011, Dearborn, MI
  Materials for Transportation & Energy

- CCR 31st Annual Meeting: April 18-20, 2010, Atlanta, GA
  The Business of Purification: Critical Challenges, Responsible Solutions

NIChE Conferences and Workshops

- **Measurement Needs in the Adsorptions Sciences**
  – NIST, Gaithersburg, MD, November 2014

- **Nano for Energy**
  – Pittsburg, PA, October 2013

- **Barrier Technologies**
  – Arlington, VA, September 2012

- **Catalysis & Alternative Feedstocks**
  – Univ of Delaware, DE, September 2011

- **Organic Light-Emitting Diodes**
  – Minneapolis, MN, June 2011

- **Hi-Performance Computing**
  – Rockville, MD, March 2011

- **Materials for Large-Scale Energy Storage**
  – NIST, Gaithersburg, MD, September 2010

- **Assessing and Enhancing the Impact of R&D in the U.S. Chemical Sciences**
  – Arlington, VA, November 2009

- **Micro-Reactor Technologies: A Critical Tool for Process Optimization and Intensification** – NIST, Gaithersburg, MD, September 2009

- **Carbon Capture and Sequestration** – Rice Univ., Houston, TX, October 2008

Other Activities

- **Congressional Visits Day** – May, 2013

- **Visits to Federal Agencies** – December, 2013