

4th

International Congress on Ceramics

The American Ceramic Society (ACerS) is pleased to host and organize the 4th International Congress on Ceramics. The International Ceramic Federation (ICF) convenes the ICC every two years in cooperation with ACerS, the European Ceramic Society, the Ceramic Society of Japan, and other ICF Member Societies.

Shaping the Future of Ceramics

ICC4 has been designed to bring together more than 600 international leaders in business and research to discuss emerging opportunities as well as what's in store for the future of ceramics and glass. This meeting focuses on innovation in:

- Energy, Environment, and Transportation
- Biology and Medicine
- Aerospace
- Nanostructured Ceramics
- Infrastructure
- Security
- Electro-, Optical- and Magnetic Ceramics and Devices
- Manufacturing and Business
- Entrepreneurship and Technology Transfer
- Workforce Development

*New this year—**the Interactive Technology Forum**—a groundbreaking, interactive approach to presenting your vision and work that goes beyond the traditional poster session. **Submit your abstract by January 17, 2012.**

www.ceramics.org/icc4

July 15-19, 2012 | Sheraton Chicago Hotel & Towers | Chicago, Illinois, USA





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join us at icc4

ICC4 brings together the global ceramics and glass community to identify key worldwide issues and to determine how we should address them.

Now more than ever manufacturers confront a dynamically changing landscape. Researchers are constantly exploring new materials and new processes. These worlds come together at ICC4 where industrial, academic and government leaders will share their expertise on everything from innovative ceramic research, design and manufacturing, to economic issues facing the ceramics and glass industry.

Programs like the Materials Genome Initiative and the Advanced Manufacturing Program along with economic, infrastructure, and technology transfer related challenges are driving materials development and manufacturing. This is the one meeting specifically designed to bring together industry and research experts in the ceramics community from around the globe with one single purpose ... to shape and guide the future of ceramic and glass materials in our world.

More than 100 invited speakers from 40 countries will be there. So should you.

ICC4 President and Technical Program Co-Chair

Dr. Katherine T. Faber

Northwestern University
McCormick School of Engineering
and Applied Science
k-faber@northwestern.edu



Technical Programming Committee

Celio Costa, Federal Univ. of Rio de Janeiro

Tate Coverdale, BASF

Stephen Freiman, Freiman Consulting

Kevin Fox, Savannah River National Laboratory

Christian Hoffmann, TDK

Lynnette Madsen, National Science Foundation

Vivek Pawar, Smith & Nephew, Inc.

Aleksander Pyzik, The Dow Chemical Company

Todd Steyer, The Boeing Company

Susan Trolier-McKinstry, Pennsylvania State Univ.

Jason Weiss, Purdue Univ.

Greg Geiger, ACerS

Mark Mecklenborg, ACerS

ICC4 Technical Program Co-Chair

Dr. Edgar Lara-Curzio

Oak Ridge National Laboratory
laracurzioe@ornl.gov



ICC4 Endorsing Societies

Associação Brasileira de Cerâmica

Australian Ceramic Society

Belgian Ceramic Society

Ceramic Society of Japan

Chinese Ceramic Society

Czech Silicate Society

European Ceramic Society

Finnish Ceramic Society

Georgian Ceramists Association

German Ceramic Society

Glass Manufacturing Industry Council

Groupe Français de la Céramique

Indian Ceramic Society

Italian Ceramic Society

Institute of Materials, Metals & Mining (IOM³)

Korean Ceramic Society

Materials Research Society of Latvia

Polish Ceramic Society

Romanian Ceramic Society (CEROM)

Scientific Society of the Silicate Industry-
Hungary

Sociedad Española de Cerámica y Vidrio

Slovak Silicate Society

Swedish Association for Materials Technology

The Ceramics Society, A Division of IOM³

Turkish Ceramic Society

World Academy of Ceramics

program

Over 100 speakers have been invited to present at ICC4. The following have confirmed their participation in this must-attend event. For the most current confirmed speaker list, visit www.ceramics.org/icc4.

Plenary Speakers

John Tracy, The Boeing Company
Athanosios Konstantopoulous, Abteilung Chemical Process Engineering Research Institute; Centre of Research & Technology Hellas
Evgenia Pekarskaya, Lux Research
David S. Bem, The Dow Chemical Company
Yukio Sakabe, Murata Manufacturing Co., Ltd. (tentative)
Delbert Day, Missouri Univ. of Science and Technology, MO-SCI Corporation
Chijoon Choi, Samsung Electro-Mechanics Co.

Aerospace

John Koenig, Southern Research Institute
Glen Mandigo, Strategic Marketing Innovations
Toshihiro Ishikawa, UBE Industries, Ltd.
Takuya Aoki, Japanese Aerospace Exploration Agency (JAXA); Chofu Aerospace Center

Biology and Medicine

Ashok Khandkar, BloXR, LLC
Meinhard Kuntz, CeramTec GmbH
Richard P. Rusin, 3M ESPE Dental Products

Electro-, Magnetic-, Optical-Ceramics and Devices

Takuya Aoki, TDK Technology Group

Environment, Energy and Transportation

Krishan Luthra, General Electric
Yutai Katoh, Oak Ridge National Laboratory
Rajendra Nath Basu, CSIR-Central Glass and Ceramic Research Institute
Wolfgang Rossner, Siemens AG
S. K. Sundaram, Alfred Univ.
Alan (Al) W. Weimer, Univ. of Colorado
Minoru Kanehira, Shanghai Institute of Ceramics, CAS
Juan C. Nino, Univ. of Florida
John Hellmann, Pennsylvania State Univ.

Masaki Ozawa, Tokyo Institute of Technology, Research Laboratory for Nuclear Reactors
Hasan Mandal, Sabancı Univ.
Manfred Salinger, Pall Corporation
Paolo Colombo, Univ. of Padova, Italy
George Muntean, Pacific Northwest National Lab

Infrastructure

Hamlin Jennings, Concrete Sustainability Hub, MIT

Nanostructured Ceramics

Sudipta Seal, Univ. of Central Florida
Lynnette Madsen, National Science Foundation
Kathleen K. Eggleston, Univ. of Notre Dame
Lang Tran, Institute of Occupational Medicine
Debra Kaiser, Ceramics Division, Material Measurement Laboratory, NIST
Jeffrey Fagan, Polymers Division, NIST

Workforce Development

Angus Kingon, Brown Univ.
Keith J. Bowman, Illinois Institute of Technology
Fumiyo Kaneko, Japan Society for the Promotion of Science, DC Office
Hongjie Luo, Shanghai Institute of Ceramics
Umesh Waghmare, Jawaharlal Nehru Centre for Advanced Scientific Research
Mario Affatigato, Coe College
Federico Rosei, Université du Québec

3rd Ceramic Leadership Summit Track

The Ceramic Leadership Summit is an annual meeting that explores business opportunities, emerging technologies and critical issues that challenge the ceramic and glass materials community. It is about business and technology leadership and connecting leaders within the community. The 3rd Ceramic Leadership Summit will be held as a one-day program included in ICC4. It will focus on technology transfer, entrepreneurship and innovation, and raising capital to support start-up ventures.



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interactive technology forum

Shape the future of ceramics and glass technology by presenting your work and vision in this new ICC4 Interactive Technology Forum. Showcase the strength of your work by exploring creative new ways to interact with your audience. Two different Interactive Technology Forum sessions will be held on Monday and Tuesday.

Submit your Interactive Technology Forum abstract by January 17, 2012 at www.ceramics.org/icc4.

These options are available:

1. Present a traditional 4 ft. by 4 ft. printed poster highlighting your work in one of the themed topics
– OR –
2. Use new technologies to display and present your technological developments
 - Present an electronic poster on a 32-inch display LCD monitor provided by ICC4 using your own laptop or electronic tablet*
 - Supplement your 4 ft. by 4 ft. printed poster with your own laptop, iPad or display screen demonstration displayed on a 3 ft. by 2 ft. tabletop space in front of your poster board
 - Supplement your 4 ft. by 4 ft. printed poster by bringing a hands-on demonstration of your material, process, or application to display on a 3 ft. by 2 ft. tabletop space in front of your poster board

* Only a limited number of display monitors will be provided by ICC4. Please indicate your interest in using a 32-inch LCD monitor in abstract submission. Be creative!

Traditional Poster Submission:

Abstracts are limited to 350 words. A 4 ft. by 4 ft. poster space and push pins will be provided for hanging your poster.

Interactive Poster Submission:

Abstracts are limited to 350 words. In addition to an abstract, submit a 100 word description of how you plan to make your poster interactive. Please identify what equipment you plan to use. Also, indicate your interest in using a 32-inch LCD monitor.

Note that 4 ft. by 4 ft. poster space, 3ft x 2ft. table space, and electricity will be provided, but an internet connection will not.



schedule

Sunday, July 15, 2012

Keynote and Welcome
Reception Evening

Monday, July 16, 2012

Plenary Session 9:00 a.m. – 11:50 p.m.
Lunch 12:00 p.m. – 12:45 p.m.
Plenary Speaker 12:45 p.m. – 1:30 p.m.
Breakout Sessions 1:40 p.m. – 3:40 p.m.
Interactive Technology
Forum 1 and Exhibit 3:45 p.m. – 6:00 p.m.

Tuesday, July 17, 2012

Plenary Speaker 8:45 a.m. – 9:40 a.m.
3rd Ceramic Leadership
Summit Track 10:00 a.m. – 12:00 p.m.
Breakout Sessions 10:00 a.m. – 12:00 p.m.
Lunch 12:00 p.m. – 12:45 p.m.
Plenary Speaker 12:45 p.m. – 1:30 p.m.
3rd Ceramic Leadership
Summit Track 1:40 p.m. – 3:40 p.m.
Breakout Sessions 1:40 p.m. – 3:40 p.m.
Interactive Technology
Forum 2 and Exhibit 3:45 p.m. – 6:00 p.m.

Wednesday, July 18, 2012

Plenary Speaker 8:45 a.m. – 9:40 a.m.
Breakout Sessions 10:00 p.m. – 12:00 p.m.
Lunch on own 12:00 p.m. – 1:30 p.m.
Breakout Sessions 1:40 p.m. – 4:00 p.m.
ICC4 Art Institute of
Chicago, Modern
Wing Event Evening

Thursday, July 19, 2012

Breakout Sessions 8:00 a.m. – 9:20 a.m.
Plenary Speaker 9:50 a.m. – 10:50 a.m.
Facilitated Discussion 11:00 a.m. – 11:45 a.m.
Optional Tours Afternoon

An optional tour is being planned to Argonne National Laboratory on the afternoon of Thursday, July 19, 2012. Contact April May at amay@ceramics.org if you are potentially interested in attending. In addition, optional post-conference tours are being planned to other Chicago area attractions. Information will be posted on www.ceramics.org/icc4 as soon as details are confirmed.

Reception at the Art Institute of Chicago

Enjoy good company, good food and outstanding art at the world-renowned Art Institute of Chicago's Modern Wing on Wednesday evening. Designed by Pritzker Prize-winning architect Renzo Piano, the Modern Wing provides a new home for the museum's collection of 20th- and 21st-century art.





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4th International Congress on Ceramics

committees

ICC4 International Advisory Committee

Gian Nicola Babini, Italian Ceramic Society, Italy
Carmen Baudin, Institute of Ceramics and Glass, Spain
Alida Bellosi, CNR- ISTECC, Institute for Science and Technology for Ceramics, Italy
Lennart Bergstrom, Stockholm Univ., Sweden
Chris Berndt, Swinburne Univ. of Technology, Australia
Liga Berzina-Cimdina, Riga Technical Univ., Latvia
Richard Brook, Imperial College London, United Kingdom
Xiang Ming Chen, Zhejiang Univ., China
Leonardo Curimbaba Ferreira, Associação Brasileira de Cerâmica, Brazil
Monica Ferraris, Polytechnic of Torino, Italy
José M.F. Ferreira, CICECO - Univ. of Aveiro, Portugal
Gary Fischman, Future Strategy Solutions LLC, USA
Lian Gao, Shanghai Jia Tong Univ., China
Krzysztof Haberkowicz, AGH Univ. of Science and Technology, Poland
Stuart Hampshire, Univ. of Limerick, Ireland
Juergen Heinrich, Univ. of Clausthal, Germany
Shin-ichi Hirano, National Institution for Academic Degrees and Univ. Evaluation, Japan
Jow-Lay Huang, National Cheng Kung Univ., Taiwan
Toshihiro Ishikawa, UBE Industries, Inc., Japan
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Sylvia Johnson, NASA Ames Research Center, USA
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Zviad Kovziridze, Georgia Technical Univ., Georgia
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Karel Lang, P-D Refractories CZ a.s., Czech Republic
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Longtu Li, Tsinghua Univ., China
Kathryn Logan, Georgia Institute of Technology and Virginia Tech, USA
Hongjie Luo, Shanghai Institute of Ceramics, Chinese Academy of Sciences, China
Hasan Mandal, Anadolu Univ., Turkey
Akio Makishima, Japan Advanced Institute of Science & Technology, Japan

Alexander G. Merzhanov, Russian Academy of Sciences, Russia
Sergei Mileiko, Solid State Physics Institute, Russia
Vojislav Mitic, Serbian Ceramic Society, Serbia
A. L. Shashi Mohan, Indian Ceramic Society, India
Karsten Agersted Nielsen, Risoe National Laboratory, Denmark
Koichi Niihara, Nagaoka Univ. of Technology, Japan
Tatsuki Ohji, AIST, Japan
Wei Pan, Tsinghua Univ., China
Maria Preda, Univ. Politehnica of Bucharest, Romania
Zbigniew Pedzich, AGH-Univ. of Science and Technology, Poland
Jose Ygnacio Pastor, Polytechnic Univ. of Madrid, Spain
Suprakas Sinha Ray, The National Centre for Nanostructured Materials, CSIR, South Africa
Pavol Sajgalik, Slovak Academy of Sciences, Slovakia (Slovak Republic)
Danilo Suvorov, Jozef Stefan Institute, Slovenia
Janos Szepvolgyi, Scientific Society of the Silicate Industry, Hungary
Wei-Hsing Tuan, National Taiwan Univ., Taiwan
Omer Van der Biest, Leuven Univ., Belgium
Petro Vincenzini, World Academy of Ceramics, Italy
Richard Weber, Materials Development Inc.
Paolo Zannini, Univ. of Modena, Italy
Yu Zhou, Harbin Institute of Technology, China

ICC4 Chicago Host Committee

Stephen Gonczy, Gateway Materials Inc.
Thomas Mason, Northwestern Univ.
Jennifer Mawdsley, Argonne National Lab
Paramita Mondal, Univ. of Illinois
Dileep Singh, Argonne National Lab
Carol Thompson, Northern Illinois Univ.
Richard Weber, Materials Development Inc.

ICC4 Steering Committee

Kristen Brosnan, General Electric
Katherine Faber, Northwestern Univ.
Christine Heckle, Corning Incorporated
Edgar Lara-Curzio, Oak Ridge National Lab
H.T. Lin, Oak Ridge National Lab
Gary Messing, Pennsylvania State Univ.
Marina Pascucci, CeraNova Corporation
L. David Pye, Alfred Univ. (Ret.)
Mrityunjay Singh, Ohio Aerospace Institute
George Wicks, Savannah River National Lab
Mark Mecklenborg, ACerS
Charlie Spahr, ACerS

registration

Contact ACerS Customer Service by phone at (240) 646-7054 or by fax at (240) 396-5637 before June 15, 2012 to save \$125. Online registration will open in March 2012.

Registration

	Early 6/15/2012	Regular
Attendee	\$850	\$975
Invited Speaker	\$650	\$775
One Day: 3rd Ceramic Leadership Summit Track	\$650	\$775
One Day: ICC4 Attendee	\$650	\$775
Student	\$375	\$450
Guest	\$225	\$225
ACerS Membership	\$120	\$120
Extra ICC4 Dinner Ticket	\$150	\$150

Registration includes Welcome Reception, Monday & Tuesday Technology Forum Receptions, Wednesday ICC4 Event, Monday Lunch, Tuesday Lunch, and Coffee Breaks. Guest Registration does not include Monday Lunch, Tuesday Lunch, and Coffee Breaks.

expo

The ICC4 Exhibit will be held in conjunction with the Interactive Technology Forum sessions, held **Monday, July 16** and **Tuesday, July 17**. Contact **Pat Janeway** at pjaneway@ceramics.org or 614-794-5826 to exhibit. Package includes Sponsorship of ICC4's two Interactive Technology Forum Sessions with refreshments/snacks served on Monday and a reception on Tuesday, as well as an exhibit booth. No other ICC4 event takes place during this time.

Space Available: 26, 10 ft. by 10 ft. booths Rate: \$3,500

Expo sponsorship package includes:

- Sponsorship of Interactive Technology Forum Reception
- Recognition on website and in program
- Signage recognizing sponsorship in Registration area and Exhibit Hall
- Recognition at Conference Dinner
- One ICC registration
- Three exhibit-only passes for booth personnel
- Draped 8 ft. high back wall and 3 ft. high side rails, 6 ft. draped table, and 2 chairs
- Complimentary listing in online directory

hotel

Sheraton Chicago Hotel & Towers

301 E. North Water Street, Chicago, IL 60610, USA
800-325-3535

To reserve your room, visit www.ceramics.org/icc4.

Rates: Single/Double \$199 | Government \$155



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including 3rd Ceramic Leadership Summit Track



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