June 3-6, 2012
BORON AMERICAS XIII

B
BROWN CENTENNIAL
June 7-8, 2012

29th BROWN LECTURES
June 9, 2012

Purdue University
BORON FUSION 2012

PROGRAM

Celebrating the Birth Centennial of
Professor Herbert C. Brown

June 3-9, 2012

Boron Americas XIII

June 3-6, 2012

Herbert C. Brown Birth Centennial

June 7-8, 2012

29th Herbert C. Brown Lectures

June 9, 2012

Department of Chemistry
Purdue University
West Lafayette, IN 47907
# Boron Americas XIII
June 3-6, 2012

## Program at a Glance

<table>
<thead>
<tr>
<th>Sun June 3</th>
<th>Mon June 4</th>
<th>Tues June 5</th>
<th>Wed June 6</th>
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</thead>
<tbody>
<tr>
<td>7:00-8:20</td>
<td>Registration Breakfast</td>
<td>7:00-8:20</td>
<td>Registration Breakfast</td>
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<tr>
<td>8:30-9:15</td>
<td>Inauguration M. Fred Hawthorne</td>
<td>8:30-9:00</td>
<td>M. Periasamy S. Marepally S. Satnley D. Pruitt</td>
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<td>9:15-10:00</td>
<td>Breakfast</td>
<td>9:00-9:20</td>
<td>F. Jackle S. Chatterjee W. Luo H. Agarwal</td>
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<td>10:00-10:30</td>
<td>Coffee</td>
<td>9:20-9:40</td>
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<td>10:30-11:00</td>
<td>J. Soderquist H. Nakamura Z. Xie</td>
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<td>Mark Lee S. Liu R. Batey</td>
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<td>11:00-11:30</td>
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<td>J. Dopke D. S. Matteson B. Singaram</td>
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<td>1:30-2:00</td>
<td>M. Wagner M. Yao H. Li D. Patel</td>
<td>1:30-2:00</td>
<td>Group Photo POSTER SESSION</td>
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<td>2:00-2:20</td>
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<td>2:00-3:30</td>
<td>T. E. Cole X. Chen N. G. Bhat D. Hinkens</td>
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<td>2:40-3:00</td>
<td>3:00-3:30</td>
<td>5:00</td>
<td>To Monticello, Indiana Beach</td>
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<td>3:00-3:30</td>
<td>Coffee</td>
<td>5:00</td>
<td>B. Das P. Ma V. Hernandez D. Nicponski I. Ibnusaud</td>
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<td>3:30-4:00</td>
<td>S. Ghosh E. Berkeley S. Graham K. Pichaandi S. Kang</td>
<td>6:30-9:30</td>
<td>Reception Boram XIII Banquet, Awards Ceremony (for registered participants only)</td>
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<td>4:00-4:20</td>
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<tr>
<td>5:00-7:00 pm</td>
<td>Dinner OYO</td>
<td>6:30-9:30</td>
<td>Cruise, and Dinner (for registered participants only)</td>
</tr>
<tr>
<td>Registration PMU Lobby</td>
<td>7:00-9:00 pm Welcome Reception PMU South Ballroom</td>
<td>9:30</td>
<td>Return to Purdue</td>
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</tbody>
</table>

Breakfast on all days will be served in Stewart Center 306. Lunch on all days will be served in Purdue Memorial Union (PMU) South Ball Room. All of the Technical Sessions will be held in Stewart Center 302. Poster Session will be held in Stewart Center 214.
### Brown Birth Centennial Schedule at a Glance

#### June 7-8, 2012

<table>
<thead>
<tr>
<th>Thursday, June 7</th>
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<tr>
<td><strong>7:00-8:20</strong></td>
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<td>Breakfast</td>
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<td><strong>8:20</strong></td>
<td><strong>8:30-9:10</strong></td>
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<tr>
<td>Introductory Comments</td>
<td>8:30-9:10</td>
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<tr>
<td>J. A. Soderquist</td>
<td>K. Matos</td>
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<td>G. W. Kabalka</td>
<td>P. K. Jadhav</td>
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<td><strong>9:50-10:20</strong></td>
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<td>Coffee</td>
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<td><strong>10:20-11:00</strong></td>
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<td>Y. Yamamoto</td>
<td>N. N. Joshi</td>
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<td>M. Periasamy</td>
<td>Y. Okamoto</td>
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<td>T. E. Cole</td>
<td>K. K. Wang</td>
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<td>C. T. Goralski</td>
<td>S. Kulkarni</td>
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<td>D. Basavaiah</td>
<td>S. Narasimhan</td>
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<td><strong>3:20-4:00</strong></td>
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<td>S. Krishnamurthy</td>
<td>S. V. Malhotra</td>
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<tr>
<td>E. Negishi</td>
<td>N. G. Bhat</td>
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<td><strong>4:00-5:00</strong></td>
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<tr>
<td>WTHR Brown Display</td>
<td><strong>4:40-5:20</strong></td>
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<td>HSSE Library event</td>
<td><strong>5:20</strong></td>
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<tr>
<td><strong>5:10-5:30</strong></td>
<td><strong>6:30-7:00 pm</strong></td>
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<tr>
<td>WTHR Brown Display</td>
<td>Social hour</td>
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<td><strong>5:30-7:00</strong></td>
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<tr>
<td>HSSE Library event</td>
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<tr>
<td><strong>7:30-9:00</strong></td>
<td><strong>7:00-9:30 pm</strong></td>
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<tr>
<td>Dinner</td>
<td>Brown Centennial and 29th Brown Lectures Banquet</td>
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<td>(by invitation only)</td>
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THE THIRTEENTH BORON IN THE AMERICAS CONFERENCE

Sunday, June 03, 2012

Purdue Memorial Union Lobby

5:00-7:00 PM  Registration

PMU South Ball Room

7:00-9:00  Welcome Reception and Cocktail

Monday, June 04, 2012

Stewart Center 306

7:00-8:20  Registration/Breakfast

Stewart Center 302

8:30-9:15  Inauguration of Herbert C. Brown Birth Centennial Celebrations
 Chief Guest: Mr. John R. Dennis, Mayor of West Lafayette

Session I  Chair: Narayan Hosmane

9:15-10:00  O-01  Boranes of the Second Kind
 M. Frederick Hawthorne, University of Missouri, Columbia, MO

10:00-10:30  Coffee Break: Stewart Center 306

Session II  Chair: George Kabalka

10:30-11:00  O-02  Asymmetric Organoborane Conversions via the Amazing 9-Bora-bicyclo[3.3.2]decanes
 John A. Soderquist, University of Puerto Rico

11:00-11:30  O-03  Dodecaborate Lipid Liposomes as New Vehicles for Boron Delivery System of Neutron Capture Therapy
 Hiroyuki Nakamura, Gakushuin University, Tokyo, Japan

11:30-12:00  O-04  Transition Metal-Mediated Functionalization of Carboranes
 Zuowei Xie, The Chinese University of Hong Kong, China

12:00-1:30  Lunch: South Ball Room, Purdue Memorial Union
Session III  
Chair: Frieder Jäkle

1:30-2:00  O-05  Boron-Doped Organometallic Polymers and Luminescent $\pi$-Systems  
Matthias Wagner, Andreas Lorbach, Estera Januszewski, Alexander Hübner, Animesh Das, University of Frankfurt, Germany

2:00-2:20  O-06  Iododemetallation of Organotrifluoroborate and Organotin Reagents Using a FeCl$_3$-NaI System  
Min-Liang Yao, David W. Blevins, Li Yong, George W. Kabalka, The University of Tennessee, Knoxville, TN

2:20-2:40  O-07  Synthesis and Suzuki Coupling of B/Sn Bismetallic Arenes  
Hao Li, Milton R. Smith, III, and Robert E. Maleczka, Jr., Michigan State University, East Lansing, MI

2:40-3:00  O-08  Synthesis and Biological Evaluation of Carboranyl-$\text{5-thio-D-glucopyranose}$ Derivatives  
Devangi Patel, Ivan Snajdr, Narayan S. Hosmane, Northern Illinois University, Dekalb, IL

3:00-3:30  Coffee Break: Stewart Center 306

Session IV  
Chair: Larry Sneddon

3:30-4:00  O-09  Chemistry and Applications of Group 5 and 8 Metallaboranes  
Sundargopal Ghosh, Indian Institute of Technology Madras, India

4:00-4:20  O-10  Synthesis and Reactivity of Half-Sandwich Metallatricarbadecaboranyl Complexes  
Emily R. Berkeley, Ariane Perez-Gavilan, Beverly A. Barnum, Patrick Carroll, Larry G. Sneddon, University of Pennsylvania, Philadelphia, PA

4:20-4:40  O-11  Development of Ferracarborane Complexes for Bioanodes and Sensors  
Scott S. Graham, Paul A. Jelliss, Rebecca J. Callahan, Saint Louis University, Saint Louis, MO

4:40-5:00  O-12  Trioxorhena(VII)carborane anion and its methyl substituted analog: Synthesis, structure, DFT and catalytic studies  
Kothanda Rama Pichand, Phillip E. Fanwick and Mahdi M. Abu-Omar, Purdue University, West Lafayette, IN

5:00-5:30  O-13  Carborane Based Optoelectronically Active Materials  
Kyung-Ryang Wee, Yang-Jin Cho, So-Yeong Jeong, and Sang Ook Kang  
Korea University, Sejong, Chochiwon, South Korea
Tuesday, June 05, 2012

Stewart Center 306

7:00-8:20 Registration/Breakfast

Stewart Center 302

Session V  Chair: John Soderquist

8:30-9:00  O-14  Method for Estimation of Extent of Doping of Conducting Materials with Molecular Oxygen by Preparation of Stable Borane Lewis Base Complexes Using Borohydride Reagents
Mariappan Periasamy, University of Hyderabad, Hyderabad, India

9:00-9:20  O-15  Boronated Glucose Derivatives as Potential Boron Neutron Capture Therapy (BNCT) Reagents
Srinivasa R Marepally, Min-Liang Yao, George W. Kabalka
The University of Tennessee, Knoxville, TN

9:20-9:40  O-16  Large Scale Synthesis of Boron Nitride Nanotubes
Shena M. Stanley, Amartya Chakrabarti, John Price, Jeffery Gelband, Narayan S. Hosmane, Northern Illinois University, Dekalb, IL

9:40-10:00 O-17  Synthesis and Characterization of Rhenacarboranes as Drug-Delivery Vehicles
Daniel Pruitt, Sara Baumann, Dr. Paul Jelliss, Saint Louis University, Saint Louis, MO

10:00-10:30 Coffee Break: Stewart Center 306

Session VI  Chair: Hiroyuki Nakamura

10:30-11:00 O-18  Carboranes Increase the Antiproliferative and Antimigratory Potency of Nampt Inhibitors
Mark W. Lee, Jr., Yulia Sevryugina, Aslam Khan, Shui Q. Ye, University of Missouri, Columbia, MO

11:00-11:30 O-19  Exploring the BN/CC Isosterism in Conjugated Aromatic Systems
Shih-Yuan Liu, Adam J. V. Marwitz, Alec Brown, University of Oregon, Eugene, OR
11:30-12:00  O-20  Synthetic Utility of Organotrifluoroborate Salts and Applications in Natural Product Synthesis
Robert A. Batey, John Janetko, Ramsay Beveridge, Farhad Nowrouzi, Adam Kafal, Timothy Ramadhar, Jazmin Bansagi, University of Toronto Toronto, ON, Canada

12:00-1:30  Lunch: South Ball Room, Purdue Memorial Union

Wetherill Chemistry Building

1:30  BORAM-XIII Group photo
Please assemble in front (south side) of Wetherill Chemistry Building (WTHR) steps

Stewart Center 214

2:00-3:30  Poster Session, Chair: P. V. Ramachandran

P-01  Synthesis of Carboranyl Conjugates of N3-Substituted Thymidine and their Evaluation as Substrates of Recombinant Human Thymidine Kinase 1
Ahmed Khalil, Hitesh K. Agarwal, Rohit Tiwari, Kevin G. Ricks, Elena Sjuvarsson, Staffan Eriksson, Michael V. Darby, Werner Tjarks
The Ohio State University, Columbus, OH

P-02  Synthesis, Characterization, and DFT Study of Trioxorhenium(VII) Carborane Complexes Stabilized by Donor ligands
Andrew Preston, Kothdanda Rama Pichaandi, Mahdi M. Abu-Omar
Purdue University, West Lafayette, IN

P-03  Nematic Liquid Crystals Derived from the [closo-1-CB\textsubscript{9}H\textsubscript{10}]\textsuperscript{−} and [closo-1-CB\textsubscript{11}H\textsubscript{12}]\textsuperscript{−} Anions
Jacek Pecyna, Bryan Ringstrand, Richard P. Denicola and Piotr Kaszyński, Vanderbilt University, Nashville, TN

P-04  Synthesis and Characterization of Quadrupolar Liquid Crystals Derived from the [closo-B\textsubscript{10}H\textsubscript{10}]	extsuperscript{2−} Anion
Aleksandra Jankowiak, Andrzej Balinski Kristein Mason, Piotr Kaszynski, and Victor G. Young Jr., Vanderbilt University, Nashville, TN

P-05  One-pot C-H Activation/Borylation/Suzuki Reactions with Imidazolylsulfonate Electrophiles
P-06  A Catalytic Borylation Route to TMC-95 and Related Studies
Fangyi Shen, Luis Sanchez, Susanne L. Miller, Milton R. Smith, III, Robert E. Maleczka, Jr. Michigan State University, East Lansing, MI

P-07  Functionalized Boron Nanorods for Water Solubility
Eyrusalam Bedasso, Amartya Chakrabarti, Matt Rodriguez, Kenneth Boblack, Narayan S. Hosmane. Northern Illinois University, Dekalb, IL

P-08  Synthesis of Glutamine Derived Chemotherapeutical Drugs for BNCT
Hiren Patel, Tam Le, Dan Jeffries, Ivan Snajdr, Barrie Bode, Narayan S. Hosmane, Northern Illinois University, Dekalb, IL

P-09  Low cost synthesis of p-Carborane
Ronald N. Peter, Amartya Chakrabarti, Ivan Snajdr, Glen Svenningsen, Narayan S. Hosmane, Northern Illinois University, Dekalb, IL

P-10  Polymer-supported Organotrifluoroborates for Radiohalogenation
Kelly E. Hall, Li Yong, Min-Liang Yao, and George W. Kabalka, The University of Tennessee, Knoxville, TN

P-11  Dialkynylation of Aryl Aldehydes using Dialkynyl Chloroboranes
Adam Pippin, Min-Liang Yao, and George W. Kabalka, The University of Tennessee, Knoxville, TN

P-12  Synthesis of PEG-Supported Organotrifluoroborates and Their Application in Homo-coupling
Li Yong, Min-Liang Yao, George W. Kabalka, The University of Tennessee, Knoxville, TN

P-13  Nucleophilic Attack of the [trans-B_{20}H_{18}]^{2-} Ion by Carbon Nucleophiles
Martin J. Mantz and Debra A. Feakes, Texas State University-San Marcos, San Marcos, TX

Jaime Z. Saavedra, Panathda Bayrasy, Angel Resendez, Bakthan Singaram, University of California Santa Cruz, Santa Cruz, CA

P-15  Recognition of Sugar Alcohols Using A Fluorescent Sensor Based on Boronic Acid Appended Bipyridinium Salts
Angel Resendez, Kelsey Clarke, Bakthan Singaram University of California Santa Cruz, Santa Cruz, CA
Supramolecular Assembly of Tris(1-pyrazolyl)borate and Related Systems

Patrick O. Shipman, Cheng-Zhong Cui, Yang Qin, John B. Sheridan and Frieder Jäkle, Rutgers University Newark, Newark, NJ

1,3-Azaborines: Synthesis, Characterization and Reactivity Studies

Senmiao Xu, Lev N. Zakharov, Shih-Yuan Liu
University of Oregon, Eugene, OR

Diastereoselective Protocols for Boron Based Acid Aldols of 3,3,3-Trifluoropropanoic acid

Barnabas Ottoo, P. V. Ramachandran, Purdue Univ., West Lafayette, IN

Controlling diastereoselectivity in the boron-mediated aldol reactions of phenylacetates

Prem B. Chanda, P. V. Ramachandran. Purdue Univ., West Lafayette, IN

Substituted tetrahydrofurans via tandem allyl/crotyl/alkoxyallylboration-hydroboration-iodination-cyclization

Pravin D. Gagare, Hari N. G. Nair, P. V. Ramachandran
Purdue University, West Lafayette, IN

3:30-4:00
Coffee Break: Stewart Center 306

5:00 pm
Depart to Lake Freeman, Monticello, IN
Bus will pick up in front of Purdue Memorial Union on Grant Street

6:30-9:30
Madam Carroll Cruise and dinner (for registered participants and invitees only)
Live Music: Scott Pazera Trio

Once in a lifetime

The transit of Venus will occur on June 5–6, 2012. (The previous transit was on June 8, 2004). This will happen from a little after 6 pm until sunset. Venus will cover only 1/30 the diameter of the sun. However, weather permitting, it should be visible. This is a historically significant astronomical event, originally used to estimate the size of the solar system. The next pair of transits will be in December 2117 and December 2125. The BORAM committee is excited that this rare event occurs during our cruise.

9:30- Return to Purdue
Wednesday, June 06, 2012

Stewart Center 306

7:00-8:20 Registration/Breakfast

Stewart Center 302

Session VII  Chair: Paul Jellis

8:30-9:00  O-21  Conjugated Organoborane Polymers of Controlled Architecture
Frieder Jäkle, Pangkuan Chen, Frank Pammer
Rutgers University Newark, Newark, NJ

9:00-9:20  O-22  Catalytic chemical vapor deposition of boron nitride nanotubes and nanosheets from molecular precursors

9:20-9:40  O-23  A Single-Component Liquid-Phase Hydrogen Storage Material
Wei Luo, Patrick G. Campbell, Lev N. Zakharov, Shih-Yuan Liu, University of Oregon, Eugene, OR

9:40-10:00  O-24  Synthesis of N3-Substituted Carboranyl Thymidine Bioconjugates and their Evaluation as Substrates of Recombinant Human Thymidine Kinase1
Hitesh K. Agarwal, Elena Sjuvarsson, Staffan Eriksson, Michael V. Darbya, and Werner Tjarks
The Ohio State University, Columbus, OH

10:00-10:30  Coffee Break: Stewart Center 306

Session VIII  Chair: M. Periasamy

10:30-11:00  O-25  Copper-catalyzed Transformations of Dodecaborates
Joel A. Dopke, Daniel S. Jaremko, Jennifer L. Meloche, Hillary L. Beeckman, Alejandro J. Ramirez
Alma College, Alma, MI

11:00-11:30  O-26  Synthesis of Boronodeoxyribose Nucleoside Analogs
Donald S. Matteson, Byung Ju Kim, Jinhua Zhang
Washington State University, Pullman, WA
11:30-12:00  O-27  Reaction of Pinacolborane with Organic halides Mediated by Magnesium Under Ambient Grignard and Barbier Conditions
Bakthan Singaram, University of California, Santa Cruz, CA

12:00-1:30  Lunch: South Ball Room, Purdue Memorial Union

Session IX  Chair: Matthias Wagner

1:30-2:00  O-28  Rapid and Simple Estimation of the Regioselectivity of Trialkylboranes by Complexation Using Boron NMR Chemical Shifts
Thomas E. Cole, San Diego State University, San Diego, CA

2:00-2:20  O-29  The roles of dihydrogen bonds in amine borane chemistry
Xuenian Chen, Hima K. Lingam, Ji-Cheng Zhao, Sheldon, G. Shore
The Ohio State University, Columbus, OH

2:20-2:40  O-30  Highly diastereoselective synthesis of (Z)-trisubstituted alkenes containing phenyl and p-methoxyphenyl moieties
Narayan G. Bhat, and Eulalio Rodriguez
University of Texas-Pan American, Edinburg, TX

2:40-3:00  O-31  Synthesis and Characterization of a Novel p-n Type Diblock Copolymer and Copolymer Fragments with P3HT as the p-Type and an Organoborane Polymer as the n-Type Polymer
Diane Hinkens, Mark Tapsak, University of Bloomsburg, Bloomsburg, PA

3:00-3:30  Coffee Break: Stewart Center 306

Session X  Chair: Sundargopal Ghosh

3:30-4:00  O-32  Boron-containing heteroarotinoids as novel chemical probes to study Retinoic Acid signaling pathways
Bhaskar C. Das, Todd Evans, The Weill Cornell Medical College, New York

4:00-4:20  O-33  Photochemical cage closure reaction verses thermal isomerization pathways of a nido-6-manganedecaborane: [nido-6-(CO)3-6-MnB9H13NMe4]
Pei Ma, James T Spencer, Syracuse University, Syracuse, NY

4:20-4:40  O-34  Benzoxaboroles, a New Privileged Structure for Medicinal Chemistry
Vincent Hernandez, Anacor Pharmaceuticals, Palo Alto, CA
4:40-5:00  O-35  *Highly Alpha-selective Syn- and Anti- Boron-Mediated Aldol Reactions of 1,3-butadienoates with Aldehydes*
Daniel Nicponski, Debarshi Pratihar, Bomi Kim, P. V. Ramachandran, Purdue University, West Lafayette, IN

5:00-5:30  O-36  *Semi synthetic production of potential enantiomerically pure molecules employing Boranes and Borohydride Reagents*
I. Ibnuusaud, H. Simimole, Divya S. Nair and K. C. SachinRaj
Mahatma Gandhi University, Kottayam, India

**BORAM XIII Banquet and Award Ceremony** (for registered participants and invitees only)

**Buchanan Suite, Ross-Ade Stadium**

6:00 and 6:20 pm  Bus will pick up in front of Purdue Memorial Union on Grant Street

6:30-7:30  *Social Hour*

7:30-8:30  *Dinner*

8:30-9:00  **BORAM PIONEER AWARD** Presentation

9:00-9:30  **Boron in the Americas Award** Presentation
HEBERT C. BROWN BIRTH CENTENNIAL

Thursday, June 07, 2012

Stewart Center 306

7:00-8:20  Registration/Breakfast

Stewart Center 302

8:20-8:30  Introductory Remarks
Prof. Jeffrey T. Roberts
Frederick L. Hovde Dean, College of Science, Purdue University

Session XI  Chair: Bakthan Singaram

8:30-9:10  O-37 Asymmetric Hydroboration via the 9-BBDs: Would HCB Approve?
John A. Soderquist, University of Puerto Rico

9:10-9:50  O-38 Isotope Incorporation Using Organoboranes
George W. Kabalka, Murthy Akula, Li Yong, Min-Liang Yao, University of Tennessee, Knoxville, TN

9:50-10:20  Coffee Break: Stewart Center 306

Session XII  Chair: Navalkishore Joshi

10:20-11:00  O-39 Nano-structured Metal Skelton Catalyst for Organic Synthesis
Yoshinori Yamamoto
Tohoku University, Sendai 980-8577, Japan

11:00-11:40  O-40 Highly Enantioselective Synthesis of Chiral Allenes
Mariappan Periasamy, N. Sanjeevakumar, P. Obula Reddy,
Manasi Dalai and Gurubrahramam Ramani
University of Hyderabad, Hyderabad, India

11:40-12:20  O-41 Developments in Methylalkylboranes – Solutions to Failed Organoborane Reactions
Thomas E. Cole, San Diego State University, San Diego, CA

12:20-1:30  Lunch: South Ball Room, Purdue Memorial Union
<table>
<thead>
<tr>
<th>Session XIII</th>
<th>Chair: Surendra Kulkarni</th>
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</table>
| 1:30-2:10   | O-42 *The Hydroboration of Enamines***  
Christian T. Goralski, CTG Consulting, LLC, Midland, Michigan |
| 2:10-2:50   | O-43 *Organic Synthesis Using Baylis-Hillman Adducts: Development of Simple Methodologies for Obtaining Heterocyclic Frameworks of Medicinal Relevance***  
Deevi Basavaiah, University of Hyderabad, Hyderabad, India |
| 2:50-3:20   | Coffee Break: Stewart Center 306 |

<table>
<thead>
<tr>
<th>Session XIV</th>
<th>Chair: P. V. Ramachandran</th>
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| 3:20-4:00   | O-44 *Organic Light Emitting Diode (OLED): A Game-Changing Technology Revolutionizing the World of Displays and Lighting***  
Kris Krishnamurthy, Scientific Advisor and Business Consultant, Pennfield, NY |
| 4:00-5:00   | **Herbert C. Brown Lectures***  
O-45 *ZACA – LyCA – Cross Coupling Cascade for Catalytic Asymmetric Synthesis of Enantiomerically Pure Compounds of Feeble Chirality***  
Ei-ichi Negishi, Purdue University, West Lafayette, IN |
| 5:10-5:30   | Dedication of Herbert C. Brown display in WTHR second floor  
Ei-ichi Negishi and Akira Suzuki |
| 5:30-7:00   | *Reception and exhibit viewing of Herbert C. Brown: A Nobel Laureate's Life and Legacy***  
Virginia Kelly Karnes Archives and Special Collections Research Center  
Fourth Floor of the HSSE Library, Stewart Center |
| 7:30-9:00   | Dinner (by invitation only) |
Friday, June 08, 2012

Stewart Center 306

7:00-8:20  Breakfast

Stewart Center 302

Session XV  Chair: Christian T. Goralski

8:30-9:10  O-46  Boranes: Excellent Reagents for Commercial Pharmaceutical Synthesis
Karl Matos, BASF Corporation, Evans City, PA

9:10-9:50  O-47  Orally Bioavailable, Nonsteroidal MR Antagonist LY2180176 for the Treatment of Hypertension
Prabhakar K. Jadhav, Eli Lilly and Co., Indianapolis, IN

9:50-10:20  Coffee Break: Stewart Center 306

Session XVI  Chair: Deevi Basavaiah

10:20-11:00  O-48  Our Explorations in Asymmetric Catalysis, the Pinacol Story
Navalkishore N. Joshi, National Chemical Laboratory, Pune, India

11:00-11:40  O-49  Design and Synthesis of Plastic Optical Fiber for Local Area Network
Yoshiyuki Okamoto, Polytechnic Institute NYU, Brooklyn, NY

11:40-12:20  O-50  Synthesis of Bowl- and Basket-Shaped Fullerene Fragments via Benzannulated Enyne–Allenes
Kung K. Wang, West Virginia University, Morgantown, WV

12:20-1:30  Lunch: South Ball Room, Purdue Memorial Union

Session XVII  Chair: Ashok Gupta

1:30-2:10  O-51  Transition from Chemistry to Business: Following HCB’s Approach!
Surendra U. Kulkarni, SABIC Technology Center, Bangalore, India

2:10-2:50  O-52  Novel Chiral Switching Ligands: Application in the synthesis of opposite Enantiomers
Srinivasan Narasimhan, Asthagiri Herbal Research Foundation, Perungudi, Chennai, India

2:50-3:20  Coffee Break: Stewart Center 306
Session XVIII  Chair: S. Krishnamurthy

3:20-4:00  O-53  *Mayapple – source to anti-cancer drugs*
Sanjay V. Malhotra, National Cancer Institute, Frederick, MD

0-4:00-4:40  O-54  *Highly diastereoselective synthesis of both (Z)-and (E)-trisubstituted alkenes containing phenyl and tolyl moieties*
Narayan G. Bhat, Lillian Duran, and Benjamin Guzman
University of Texas-Pan American, Edinburg, TX

4:40-5:20  O-55  *Sweetness and Light: Continuous Glucose Sensing with a Fluorescent Thin Film Hydrogel*
Bakthan Singaram, University of California Santa Cruz, CA

5:20  Concluding Remarks

29th H. C. Brown Lectures Banquet  (by invitation only)

South Ball Room, Purdue Memorial Union

6:30-7:00  Social Hour
Live Music: Scott Pazera Trio

7:00-8:00  Dinner

8:00-  Remembering HCB by Brownians
THE TWENTY NINTH
HERBERT C. BROWN LECTURES IN ORGANIC CHEMISTRY

Saturday, June 09, 2012

Stewart Center 306
7:00-8:30 Breakfast

Stewart Center 302
9:00-9:10 Introductory Remarks
Prof. Paul Shepson, Head, Department of Chemistry, Purdue University

9:10-10:10 O-56 Boron: A unique element for orchestrating stereoselective transformations
Varinder Aggarwal, University of Bristol, UK
(Chair: Mark A. Lipton)

10:10-10:50 Coffee Break and Poster Session: Stewart Center 306

11:00-12:00 O-57 Iron-, Cobalt- and Palladium-Catalyzed Coupling Reactions. Application to the Synthesis of Complex Molecules
Janine Cossy, ESPCI ParisTech, Paris, France
(Chair: Arun K. Ghosh)

12:00-1:30 Lunch: South Ball Room, Purdue Memorial Union

1:30-1:50 O-58 Aditya Kulkarni
Herbert C. Brown Organic Graduate Student Research Award Winner

1:50-2:10 O-59 Charles Rubert
Herbert C. Brown Organic Graduate Student Research Award Winner

2:10-3:10 O-60 Cycloadditions in Heterocycle and Alkaloid Synthesis
Peter Wipf, University of Pittsburgh, PA
(Chair: Alex Wei)

3:10-3:40 Coffee Break: Stewart Center 306

Akira Suzuki, Hokkaido University, Sapporo, Japan
(Chair: P. V. Ramachandran)

4:40-4:45 Closing Remarks