


**American Institute of
Chemical Engineers**

**2011 AIChE ANNUAL
STUDENT CONFERENCE
Awards Ceremony**

**Sunday, October 16, 2011
12:00 – 1:00 PM
Auditorium Room 1**

AIChE
Minneapolis, MN | 2011 Annual Student Conference



2011 Annual Student Conference Sponsors

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Master of Ceremonies

Chris Williams, *University of South Carolina*
AIChE Student Chapters Committee Chair

Conference co-host Chapters

Iowa State University

University of Minnesota- Twin Cities

Speakers

Maria K. Burka, *AIChE President 2011*

David Rosenthal, *AIChE Incoming President*

June C. Wispelwey, *AIChE Executive Director*

Wendy Smades, *SACHE*

Amy Theis, *SACHE*

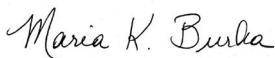
Doug Ludlow, *Omega Chi Epsilon*

Dear Students and Chapter Advisors,

Welcome to the 2011 AIChE Student Awards Ceremony. We gather this morning to honor the achievements of outstanding students and advisors during the past year and give them the public recognition they have earned.

AIChE is pleased to provide over \$50,000 each year in student awards and scholarships. In addition, generous gifts from our corporate sponsors make these honors possible. Visit AIChE's student website www.aiche.org/Students for details about next year's awards and deadlines.

Enjoy your weekend in Minneapolis.



Maria K. Burka

President

American Institute of Chemical Engineers



Chris Williams

Chair

AIChE Student Chapters Committee

A Special Thanks to the 2011 Executive Student Committee

The 2011 AIChE Executive Student Committee (ESC) is composed of 20 Regional Liaisons charged with the mission of expanding communications between Student Chapters, serving as a resource for those Chapters in need and promoting a stronger relationship with the national AIChE organization. Six of these Regional Liaisons hold secondary roles as Student Cabinet Members. AIChE would like to thank these members for a year of extraordinary service and dedication.

Mid-America Region

Alexandria Carli, *University of Iowa*

Laura Wolters, *Kansas State University*

Mid-Atlantic Region

Jack Chan, *Johns Hopkins University*

David Monteiro, *Stevens Institute of Technology*

North Central Region

Andrew Cuthbertson, *University of Illinois, Urbana-Champaign*

Cristine Zuchora, **Local Sections Chair**, *University of Michigan*

Northeast Region

Chris Lowe, **Chair**, *University Massachusetts, Amherst*

Emma Chory, *Northeastern University*

Pacific Northwest Region

Bader Aboalsaud, *Oregon State University*

Kiki Chan, *University of British Columbia*

Rocky Mountain Region

Emily McLaughlin, *New Mexico State University*

Kevin Siggard, **Vice Chair** *University of Utah*

Southern Region

Stefan Benoit, *Louisiana State University*

Rachel Brashear, **Young Professional Chair**

University of Kentucky, Paducah

Anastasia Kruse, *University of Kentucky*

Shaina Rosenauer, **Membership Chair**, *University of Florida*

Southwest Region

Hunter Hicks, **Vice Chair**, *Texas A&M University*

Emeric Naseman, *Texas A&M University*

Western Region

Ben Lascelles, *California State University, Long Beach*

Diana Lok, *University of California, San Diego*

2011 Awards Recipients

National Student Paper Competition Finalists

Sponsored by Omega Chi Epsilon

These eight students are winners of the Regional Student Competitions this past spring. They will compete for first prize in the National Competition on Monday morning, October 17. The winners will be recognized on the AIChE student website.

*Exploring Solvent Systems: Frankincense Oil Solubility
and in Vitro Toxicity*

John Miskelly, Oklahoma State University
(Mid-America Region)

*Effects of Salinity on the Intrinsic Growth Rate of Freshwater
Alga Chlorella Vulgaris*

Sebatian Escotet, Pennsylvania State University
(Mid-Atlantic Region)

Algae-Based Conversion of Waste to Biofuel

Jacob Kohl, University of Akron
(North Central Region)

*Controlled Vancomycin Delivery From Degradable Polymer
Multilayer Films*

Jean Fang, Massachusetts Institute of Technology
(Northeast Region)

*Enrichment of Exoelectrogenic Bacteria Communities for
Ethanol Microbial Fuel Cells*

Ran Chao, University of British Columbia
(Pacific Northwest Region)

*Controlled Release of Catalase and Vancomycin from
Poly (-amino ester) Hydrogels*


Justin Byarski, University of Kentucky, Lexington
(Southern Region)

Flow-Aligned Graphene/PVA Nanocomposite Films

Abel B. Cortinas, Texas Tech University
(Southwest Region)

*A Theoretical Process Design for the Commercial Scale
Production of Single-Walled Carbon Nanotubes*

Sean Clark, University of Nevada
(Western Region)



National Student Design Competition

Sponsored by AIChE and Omega Chi Epsilon

The first-place winners in the individual and team categories will present their winning designs for Gas to Liquids (GTL), in a session on Monday morning, October 17.

INDIVIDUAL CATEGORY

1st Place

Nathan W. Hanna

Michigan State University

HONORABLE MENTION

Nathaniel Cy McIntee-Chmielewski

Michigan State University

TEAM CATEGORY

1st Place – William A. Cunningham Award

Justin Williamson, Derek A. Needham & James R. Wright

Mississippi State University

HONORABLE MENTION

Brittany J. Quigley, Jonathan D. Jones & David Quigley

University of Mississippi

Eric Casey, Andrew S. Estess & Rebecca D. Atkinson

Mississippi State University

2011 T-shirt Design Contest

This year's winning student conference t-shirt design was created by:

Victoria Baldwin, *Stevens Institute of Technology*

John J. McKetta Undergraduate Scholarship

Sponsored by the Dekker Foundation

Awarded for the ninth year in 2011, this scholarship, named in honor of Professor Emeritus John J. McKetta, recognizes a chemical engineering undergraduate who is planning a career in the chemical engineering process industries.

Peter Ries, *Northeastern University*

Engineers Without Borders Grant Award

The 2011 recipients of AIChE's Engineers Without Borders grant is supported by the Societal Impact Operating Council.

Kelly Barb, *Rowan University*

Matthew Conway, *University of Maryland, College Park*

Donald F. and Mildred Topp Othmer National Scholarship Awards

Each year students are awarded scholarships based on outstanding academic achievement and involvement in Student Chapter activities.

John Eason, *University of Tulsa*

Kathleen Go, *University of California, Davis*

Marcus Grimm, *University of Akron*

Jason Gurwell, *Oklahoma State University*

John Franklin, *Michigan State University*

Jordan Keith, *North Carolina State University*

Vera Lam, *Rice University*

Robert Morrow, *University at Buffalo*

Laura Musick, *University of Missouri*

Emily Nelson, *Northeastern University*

Abby Neu, *University of Iowa*

Issac Niekamp, *University of Dayton*

Eric Snider, *University of Tennessee, Chattanooga*

Jennifer Welsh, *Texas Tech University*

Lian Zhu, *University of Michigan*

Donald F. Othmer Sophomore Academic Excellence Award

Presented to one student in each Student Chapter who has attained the highest scholastic grade point average during his or her freshman and sophomore years.

Skyler Jackson

Arizona State University

James Kaczmarek

Auburn University

Hector Perez Parra

Brigham Young University

Ross Browne

Brown University

Christopher Porter

Bucknell University

Stephanie Engel

Carnegie Mellon University

Brian Ratcliffe

Christian Brothers University

Alexandra Kleven

Clemson University

Chidanand Balaji

Cornell University

Steven Kelley

Drexel University

Namrata Vora

Johns Hopkins University

Jessica Long

Kansas State University

Kalpanee Gunasingha

Louisiana State University

Qinqin Gao

Manhattan College

Avanti Shrikumar

*Massachusetts Institute
of Technology*

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| Logan Matthews | <i>Michigan State University</i> |
| Chase Hacker | <i>Mississippi State University</i> |
| Marie Fulmer | <i>New Mexico State University</i> |
| Brian Schuster | <i>North Carolina State University</i> |
| Taylor Dickman | <i>Northeastern University</i> |
| Rachel Vinson | <i>Oklahoma State University</i> |
| Brynn Livesay | <i>Oregon State University</i> |
| Josephine Chiu | <i>Polytechnic Institute of New York University</i> |
| Steven Cooper | <i>Rice University</i> |
| Yile Gu | <i>Rose-Hulman Institute of Technology</i> |
| Mia Korngruen | <i>Rowan University</i> |
| Ibrahim Akaba | <i>Rutgers University</i> |
| David Monteiro | <i>Stevens Institute of Technology</i> |
| Arturo Salinas | <i>Tecnológico de Monterrey</i> |
| Kevin Wrobel | <i>Texas A&M University</i> |
| Ross McFall | <i>Texas Tech University</i> |
| Scott Shields | <i>University of Iowa</i> |
| Aury Keller | <i>Trine University</i> |
| Ashley Spooner | <i>Tuskegee University</i> |
| Floren Herrera | <i>United States Military Academy</i> |
| Daniel Salem | <i>University at Buffalo</i> |
| Lisa Guay | <i>University of Arizona</i> |
| Elizabeth Crowder | <i>University of Arkansas</i> |
| Jeffrey Edsinga | <i>University of California, Davis</i> |
| Matthew McCoy | <i>University of California, San Diego</i> |
| Carolyn Mills | <i>University of California, Santa Barbara</i> |
| Alexandra Bayles | <i>University of Delaware</i> |
| George Mathew | <i>University of Florida</i> |
| Travis Nelson | <i>University of Idaho</i> |
| Devon Hill | <i>University of Kentucky</i> |
| Landon Mott | <i>University of Kentucky, Paducah</i> |
| Brandon Plaisance | <i>University of Louisiana, Lafayette</i> |
| Amber Trenkamp | <i>University of Louisville</i> |
| Lucas Mathers | <i>University of Maine</i> |
| Spencer Wyant | <i>University of Massachusetts, Amherst</i> |
| Sarah Clark | <i>University of Michigan</i> |
| David Groschen | <i>University of Minnesota</i> |
| Scott Stanley | <i>University of Missouri</i> |
| David Graves | <i>University of Nevada, Reno</i> |
| Michael Balch | <i>University of New Hampshire</i> |
| Tamara Jaeger | <i>University of New Haven</i> |

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| Ian Foerster | <i>University of North Dakota</i> |
| Gawain Lau | <i>University of Pennsylvania</i> |
| Natalie Aponte-Méndez | <i>University of Puerto Rico</i> |
| Ashley Poe | <i>University of Tennessee, Chattanooga</i> |
| Lee Scott | <i>University of Toledo</i> |
| Madeline Laizure | <i>University of Tulsa</i> |
| Benjamin Hammond | <i>University of Virginia</i> |
| Anton Cottrill | <i>Vanderbilt University</i> |
| Nicole Giambrone | <i>Villanova University</i> |
| Matthew Summers | <i>Washington State University</i> |
| Kerry Aldrich | <i>Washington University, St. Louis</i> |
| Anna McClung | <i>West Virginia University</i> |

Freshman Recognition Award

Presented to the one student member in each Student Chapter who has been the most active in their Chapter during the freshman year.

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| Tyler Sherman | <i>Arizona State University</i> |
| Daniel Arias | <i>Auburn University</i> |
| David Sifuentes | <i>Brigham Young University</i> |
| Adrien Deschamps | <i>Brown University</i> |
| Jayne Beckmann | <i>Bucknell University</i> |
| Ben Karabas | <i>Johns Hopkins University</i> |
| Kevin Diehl | <i>Kansas State University</i> |
| Jarrett Peplinski | <i>Michigan State University</i> |
| Deirdre Brockwell | <i>Mississippi State University</i> |
| Julie Boyles | <i>North Carolina State University</i> |
| Victoria Zeuner | <i>Northeastern University</i> |
| Haley Moen | <i>Oregon State University</i> |
| Kazi Yasin Helal | <i>Polytechnic Institute of New York University</i> |
| Deughyeong An | <i>Rice University</i> |
| Chandler Bass | <i>Rose-Hulman Institute of Technology</i> |
| Ethan Kirschner | <i>Stevens Institute of Technology</i> |
| Adriana Morales | <i>Tecnológico de Monterrey</i> |
| Kevin Vo | <i>Texas A&M University</i> |
| Troy Alvarado | <i>Texas Tech University</i> |
| Nicholas Kelsey | <i>Trine University</i> |
| Daniel Douglas | <i>Tuskegee University</i> |

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| Kyle Marshall | <i>University of Arizona</i> |
| Caroline Quan | <i>University of California, Berkeley</i> |
| Renee Iinuma | <i>University of California, Davis</i> |
| Carolyn Mercer | <i>University of Florida</i> |
| Manasi Dave | <i>University of Illinois, Urbana-Champaign</i> |
| Brianna Smith | <i>University of Kentucky</i> |
| Sarah Kennedy | <i>University of Kentucky, Paducah</i> |
| Branden Trahan | <i>University of Louisiana, Lafayette</i> |
| Emily Vannozzi | <i>University of Maine</i> |
| Jean Smith | <i>University of Massachusetts, Amherst</i> |
| Matt Schoendorf | <i>University of Michigan</i> |
| Megan Schroeder | <i>University of Missouri</i> |
| Anthony D'Amico | <i>University of New Hampshire</i> |
| Nigel Schmitz | <i>University of North Dakota</i> |
| Ryan Marschang | <i>University of Pennsylvania</i> |
| Ben Kegley | <i>University of Tennessee, Chattanooga</i> |
| Jasmine Htoon | <i>University of Tulsa</i> |
| Colvin Wang | <i>University of Virginia</i> |

Minority Affairs Committee Scholarship Awards for College Students

Sponsored by Minority Affairs Committee (MAC)

Presented to undergraduates based on their academic records and participation in AIChE student and professional activities. Each recipient will receive a \$1,000 scholarship. The MAC-AIChE scholarship has been awarded since 1994 with close to 300 recipients.

The 2011 AIChE Minority Scholarships for College Students will be announced at the MAC Reception held on Monday, October 17, 7:00 – 8:30 PM at the Minneapolis Convention Center, Room 102F.

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|-----------------------------------|--|
| Sarah Agara | <i>Rice University</i> |
| Chibueze Amanchukwu | <i>Texas A & M University</i> |
| KaLia Burnette | <i>Mercer University</i> |
| Trishelle Copeland-Johnson | <i>University of South Florida</i> |
| Adria Galloway | <i>University of Texas, Austin</i> |
| Rocio Garay | <i>Carnegie Mellon University</i> |
| Alan T. Lee | <i>Texas A&M University, College Station</i> |
| Anthony Mulenga | <i>Rice University</i> |
| Paul Mwasame | <i>University of Pennsylvania</i> |

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| Banji Olaniyan | <i>Howard University</i> |
| Ike Chukwuemeka Okorafor | <i>Stanford University</i> |
| Udochukwu Okorafor | <i>Columbia University</i> |
| Reisha Parham | <i>Virginia Tech University</i> |
| Marko Popovic, Jr. | <i>University of Notre Dame</i> |
| Jillian Rogers | <i>University of Maryland, Baltimore County</i> |
| Victoria Ross | <i>City College of New York</i> |
| Valencia Williams | <i>Case Western Reserve University</i> |

Minority Affairs Committee Awards for Incoming College Freshmen

Sponsored by Minority Affairs Committee (MAC)

Awarded to incoming freshmen based on academic record, participation in school and work activities, and reason for choosing science or engineering. Each recipient will receive a \$1,000 scholarship. The MAC-AIChE scholarship has been awarded since 1994 with close to 300 recipients.

The 2011 AIChE Minority Scholarships for Incoming Freshmen will be announced at the MAC Reception held on Monday, October 17, 7:00 – 8:30 PM at the Minneapolis Convention Center, Room 102F.

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| Abdulkareem Adesokan | <i>Cornell University</i> |
| Olamide Alabi | <i>University of Michigan, Dearborn</i> |
| Chelsea Clark | <i>University of Texas, Austin</i> |
| Yewande Dada | <i>Southern Methodist University</i> |
| Moriah Elusta | <i>Illinois Institute of Technology</i> |
| Arisbeth Ibarra Nieblas | <i>University of Arizona</i> |
| Iniki Juarez-Haden | <i>Kansas State University</i> |
| Rim Mehari | <i>Stanford University</i> |
| Jamil Muhammad | <i>Morehouse College</i> |
| Lorenzo Norrid | <i>University of Notre Dame</i> |
| Stephanie Romero | <i>University of California, Los Angeles</i> |
| Claudia Smith | <i>Purdue University</i> |
| Marcus Watson | <i>Rutgers, The State University of New Jersey</i> |
| Andrea Williams | <i>Chatham University</i> |

Safety and Chemical Engineering Education (SACHE) Student Design Competition for Safety in Design

One team design award is presented to the best application of the principles of chemical process safety.

The Jack Wehman Team Award

Kelli Heckman, Daniel Schall & Alexandra Sproul,
Virginia Tech University

Safety and Health Division Student Design Competition Award for Safety

The Ted Ventrone, Ephraim Scheier & Walt Silowska Award

Matthew T. Grant, Stuart Randel & Blake Winden,
Oklahoma State University

Outstanding Student Chapter Advisor

Sponsored by the Bartlesville Local Section of AIChE with support from ConocoPhillips

Recognizes an individual's outstanding service and leadership in guiding the activities of an AIChE Student Chapter in accordance with AIChE principles.

Dr. Sundararajan V. Madihally, *Oklahoma State University*

Outstanding Student Chapter Award

Presented annually to those Student Chapters that show an exceptional level of participation, enthusiasm, program quality, professionalism, and involvement in the university and community.

Bucknell University

Timothy M. Raymond, *Advisor*
Amanda Britton, *President*

Georgia Institute of Technology

Clifford L. Henderson, *Advisor*
Arthur D. Barfield, *President*

Illinois Institute of Technology

Donald Chmielewski, *Advisor*
Carol Mak, *President*

Mississippi State University

Bill B. Elmore, *Advisor*
Margaret Casey & Ruthie Franke, *Presidents*

Missouri University of Science and Technology

Daniel Forciniti, *President*

Andrew Naida Travis & Matt Gill, *Presidents*

New Jersey Institute of Technology

Reginald Tomkins & Shawn Yetman, *Advisors*

Maria Khouzam & Bryan Sutphen, *Presidents*

New Mexico State University

David Rockstraw & Jessica Houston, *Advisors*

Michelle Wilson, Courtney Deshayes &

Alicia Salazar, *Presidents*

North Carolina State University

Russ O'Dell, *Advisor*

Alanna Daley, *President*

Oklahoma State University

Sundararajan V. Madihally, *Advisor*

Chad O'Connor, *President*

Oregon State University

Willie E. Rochefort, Jeff Nason & Adam Higgins, *Advisors*

Joe Anderson, Ian Gluck & Kyle Robinson, *Presidents*

University of Illinois, Urbana-Champaign

Brenden Harley, *Advisor*

Andrew Cuthbertson, *President*

University of Iowa

David Murhammer, *Advisor*

Amber Johnson & Abby Neu, *Presidents*

University of Kentucky, Lexington

J. Zach Hilt, *Advisor*

Michael Abney, *President*

University of Kentucky, Paducah

David L. Silverstein, *Advisor*

Ryan Hayden, *President*

University of Michigan

H. Scott Fogler, *Advisor*

Nicholas Orichella & Lian Zhu, *Presidents*

University of Virginia

John O'Connell, *Advisor*

Donna Bryant, *President*

Chem-E-Car[®] Competition Finalists

Sponsored by Chevron

These teams have designed and built vehicles powered solely by chemical reactions. They will race Sunday, October 16 from 2:00 – 4:30 PM.

*Contestants as of September 2, 2011



Auburn University
Bucknell University
Carnegie Mellon University
Clarkson University
Colorado State University
Georgia Institute of Technology
Louisiana State University
Michigan Technological University
Technológico de Monterrey
Ohio State University
Oklahoma State University
Rice University
Stanford University
Texas Tech University
University of Akron
University of British Columbia
University of California, Davis
University of California, Santa Barbara
University of Cincinnati
University of Houston
University of Maryland, College Park
University of Minnesota, Minneapolis
University of Missouri, Columbia
University of Missouri, Rolla
University of New Hampshire
University of North Dakota
University of Pittsburgh
University of Puerto Rico, Mayaguez
University of Tennessee, Knoxville
University of Utah
Washington State University

AIChE[®]

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