

preprocessinc

Chemical Engineering for Entrepreneurs

Honors and Awards

35 under 35 Award in Innovation

Christina Borgese, *American Institute of Chemical Engineers*. Minneapolis Annual Meeting; November 2017.

AIChE Fellow

Marc Privitera, *American Institute of Chemical Engineers*. San Francisco Annual Meeting; November 2016.

Distinguished Chemical Engineering Alumna

Christina Borgese, PreProcess, Inc. *University of California*. Santa Barbara; July 2016.

Technical Advisory Board Appointment

Marc Privitera, *Canadian International Minerals*. March 2016.

American Institute of Chemical Engineers Profile - Christina Borgese: Building Entrepreneurial Excellence

By Emily Frangenburg, *Chemical Engineering Progress*. AIChE: New York, NY; June 2015.

Center for Engineering and Entrepreneurial Excellence Chair Appointment

Marc Privitera, *Center for Engineering and Entrepreneurial Excellence: American Institute of Chemical Engineers*. New York, NY; September 2014.

College of Engineering Exemplary Service Award

Marc Privitera, PreProcess, Inc. *University of California*. Santa Barbara, CA; June 2014.

Chemical Engineering Advisory Board Appointment

Christina Borgese, PreProcess, Inc. *Cal Baptist University*. Riverside, CA; May 2014.

Advisory Board Appointment

Christina Borgese, *Cal Baptist University*. Riverside, CA; April 2014.

Management Division Elected Director

Christina Borgese, *Management Division: American Institute of Chemical Engineers*. New York, NY; February 2014.

Jack of All Trades

Marc Privitera, PreProcess, Inc. *Chemical Engineering*. Cheminnovations Conference Galveston, TX; September 2013.

30 Under 30 in Manufacturing

Christina Borgese, PreProcess, Inc., *Manufacturing Engineering*. July 2013.

Who's Who in California Biodiesel

PreProcess, Inc. *California Biodiesel Alliance*. San Francisco, CA; February 2013.

Technology Pioneer Award

World Economic Forum. Davos, Switzerland; February 2010.

Publications

Marc Privitera. "Water Water Water and Basic Lithium Processing." *Linked In*. April 2016.
<https://www.linkedin.com/pulse/water-basic-lithium-processing-marc-privitera?trk=prof-post>

Marc Privitera. "Some Basic Revenue and Burden Considerations for Lithium Processing." *Linked In*. March 2016.
<https://www.linkedin.com/pulse/some-basic-revenue-burden-considerations-lithium-marc-privitera?trk=prof-post>

Marc Privitera. "Lithium Extraction Processing Basics: Terminology and Definitions." *Linked In*. March 2016.
<https://www.linkedin.com/pulse/lithium-extraction-processing-basics-terminology-marc-privitera?trk=prof-post>

Borgese, Christina, and Marc Privitera. "Biodiesel Reaction and Separation Technology." *Biodiesel Magazine* October 2011: 40-42. Print. <http://www.biodieselmagazine.com/articles/8055/biodiesel-reaction-and-separation-technology>

Borgese, Christina, and Marc Privitera. "Quick and Dirty Feedstock Characterization." *Biodiesel Magazine* August 2011: 40-42. Print. <http://www.biodieselmagazine.com/articles/7928/quick-and-dirty-feedstock-characterization>

Geiver, Luke with Christina Borgese and Marc Privitera as contributing sources. "Proving out Supercritical Processing." *Biodiesel Magazine* June 2011: 24-29. Print.
<http://www.biodieselmagazine.com/articles/7791/proving-out-supercritical-processing>

Privitera, Marc, and Christina Borgese. "Biorefining Technology Scale-up." *Biorefining Magazine* March 2011: 34-37. Print. <http://www.biorefiningmagazine.com/articles/5329/biorefining-technology-scale-up>

Borgese, Christina. "Infrastructure Needs for the Hydrogen Economy" *Journal of Engineering & Public Policy* August 2004. <http://www.wise-intern.org/journal/2004/WISE2004-ChristinaBorgeseFinalPaper.pdf>

Patents

U.S. Patent 8,894,907, "Process of making a cleaning instrument comprising functionally active fibers", Privitera; Marc P., Lestage; David Jackson, White; Edward Jason; inventors. November 25, 2014.

U.S. Patent 8,357,645, "Semi-rigid gel cleansing article and uses thereof", Glenn; Gregory M., Stephenson; Serena, Manalo; Nikita R., Lestage; David, Privitera; Marc; inventors. January 22, 2013.

U.S. Patent 8,349,449, "Polymer active complex fibers", Privitera; Marc, Lestage; David Jackson, White; Edward Jason; inventors. January 8, 2013.

U.S. Patent 8,309,508, "Fibrous substrate with a solid hypohalite precipitate formed therein", Privitera; Marc P., Smith; William L., White; Edward Jason, Adams; Leslie N.; inventors. November 13, 2012.

U.S. Patent 8,268,770, "Fibrous substrate with a solid hypohalite precipitate formed therein and process of making", Privitera; Marc P., Smith; William L., White; Edward Jason, Adams; Leslie N.; inventors. September 18, 2012.

U.S. Patent 8,268,018, "Agglomerated animal litter", Privitera, Marc P.; Borgese, Christina M.; Lestage, David J.; Iliff, Robert J.; Swatling, Donald; van Buskirk, Gregory; inventors. September 18, 2012.

U.S. Patent 7,964,529, "Method of agglomeration", Borgese, Christina; Privitera, Marc; Tippit, Kristine; Fritter, Charles; Walker, Amanda; inventors. June 21, 2011.

U.S. Patent 7,776,110, "Agglomerated animal litter", Privitera, Marc P.; Borgese, Christina M.; Lestage, David J.; Iliff, Robert J.; Swatling, Donald; van Buskirk, Gregory; inventors. August 17, 2010.

U.S. Patent 7,635,415, "Regenerable cleaning implement for sanitizing a surface", Lestage, David J.; Privitera, Marc P.; van Buskirk, Gregory; Cumberland, Scott L.; inventors. December 22, 2009.

Presentations

“Entrepreneurial Leadership – Invited Panel Event”

Privitera, Marc P.; Borgese, Christina M. *AIChE 2016 National Meeting*. San Francisco, CA; November 13, 2016
Presentation and Event Chairs.

“Process Development Innovations for Sustainable Food Production – Experimental Orders on an Entrepreneurial Pace: Dairy Wastewater Characterization Control Using Sequenced Blending”

Borgese, Christina M. *AIChE 2015 National Meeting*. Salt Lake City, UT; November 11, 2015. Presentation.

“The Driving Need for Sustainability in Innovation”

Borgese, Christina M. *AIChE 2015 National Meeting*. Salt Lake City, UT; November 11, 2015. Presentation.

“The Data Sets: EOs, KLRs, and Measurement Metrics”

Borgese, Christina M. *AIChE 2015 National Meeting*. Salt Lake City, UT; November 10, 2015. Presentation and Chair.

“Financial Matters for the Entrepreneurial Chemical Engineer.”

Privitera, Marc. *AIChE 2015 National Meeting*. Salt Lake City, UT; November 10, 2015. Presentation and Chair.

“How to Entrepreneur: Measuring the Effort.”

Borgese, Christina M. *AIChE 2015 National Meeting*. Salt Lake City, UT; November 9, 2015. Presentation and Chair.

“Entrepreneur 101: Getting Started.”

Privitera, Marc. *AIChE 2015 National Meeting*. Salt Lake City, UT; November 9, 2015. Presentation and Chair.

“Skiing, Snowboarding, and Innovative Chemical Engineering.”

Privitera, Marc. *AIChE 2015 National Meeting*. Salt Lake City, UT; November 8, 2015. Presentation and Chair.

“Front End Loading – Methods and Examples”

Borgese, Christina M. *AIChE 2015 Spring Meeting*. Austin, TX; April 27, 2015. Presentation and Chair.

“Building a First of Its Kind Technology – Process Development from Idea to Commercialization”

Borgese, Christina M. *AIChE 2015 Spring Meeting*. Austin, TX; April 27, 2015. Presentation and Plenary Keynote.

“Leadership and Management of Chemical Mega Projects”

Privitera, Marc P. *AIChE 2015 Spring Meeting*. Austin, TX; April 27, 2015. Presentation and Chair.

“Instrumentation, Automation and Control Applications in a Pilot Scale Supercritical Biodiesel Process”

Privitera, Marc P. *AIChE 2015 Spring Meeting*. Austin, TX; April 27, 2015. Presentation.

“Pilot Plant Essentials: The Tools for Successful Chemical Startups”

Borgese, Christina M. *AIChE 2015 Spring Meeting*. Austin, TX; April 28, 2015. Presentation.

“Organizing the Experimental Order”

Borgese, Christina M. *AIChE 2015 Spring Meeting*. Austin, TX; April 28, 2015. Presentation and Chair.

“Practical Aspects of Slurries and Solid Liquid Separations”

Privitera, Marc P. *AIChE 2015 Spring Meeting*. Austin, TX; April 28, 2015. Presentation.

“Chemical Mega Projects and High Performance Teams”

Privitera, Marc P. *AIChE 2015 Spring Meeting*. Austin, TX; April 28, 2015. Presentation and Chair.

“Developing The Data Sets, Getting the Work Done - Bench, Pilot, Full Scale, EOs, KLRs, and Measurement Metrics”

Borgese, Christina M. *AIChE NorCal Spring Symposium*. Berkeley, CA; April 21, 2015. Presentation.

“The Entrepreneurial Chemical Engineer”

Privitera, Marc and Borgese, Christina. *AIChE NorCal Spring Symposium*. Berkeley, CA; April 21, 2015. Event Chairs.

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Honors, Publications, Patents, and Presentations – Rev 4 – Page 3 of 5

“Building an Excellent Entrepreneurial Team”

Privitera, Marc P. *AIChE Annual Meeting*. Atlanta, GA; November 17, 2014. Presentation.

“The Excitement of Testing and Balancing in the Commissioning Phase of a Project”

Borgese, Christina M. *AIChE Annual Meeting*. Atlanta, GA; November 17, 2014. Presentation.

“Entrepreneurial Chemical Mega Projects with Parallel Path Process Development”

Privitera, Marc P. *AIChE Annual Meeting*. Atlanta, GA; November 18, 2014. Presentation.

“The Art of the Mass Balance – The Cultural Tools of Entrepreneurial Chemical Startups”

Borgese, Christina M. *AIChE Annual Meeting*. Atlanta, GA; November 18, 2014. Presentation.

“Sulfur Removal Strategies for Biodiesel”

Privitera, Marc P. *AIChE Annual Meeting*. Atlanta, GA; November 19, 2014. Presentation.

“Production Water Processing Technologies”

Borgese, Christina M. *AIChE Annual Meeting*. Atlanta, GA; November 20, 2014. Presentation.

“Academics to Practical Reality”

Borgese, Christina M. *AIChE Webinar*. National Online; April 23, 2014. Presentation

“Entrepreneurial Engineers and Traditional Engineers”

Privitera, Marc P. *AIChE Annual Meeting*. San Francisco, CA; November 4, 2013. Presentation.

“Biofuels Wastewater Strategies”

Privitera, Marc P. *AIChE Annual Meeting*. San Francisco, CA; November 4, 2013. Presentation.

“The Development and Commercialization of a Biodiesel Process Using Supercritical Fluid Methods”

Privitera, Marc P. *AIChE Annual Meeting*. Minneapolis, MN; October 17, 2011. Presentation.

“Combinational Multifedstock Biorefining.”

Privitera, Marc P. *AIChE Annual Meeting*. Minneapolis, MN; October 17, 2011. Presentation.

“Biodiesel Process Engineering to Survive, Thrive, and Drive Today’s Green Fuel Markets.”

Borgese, Christina M. *US Biodiesel Conference*. Houston, TX; October 12, 2011. Presentation.

“Waste Grease Feedstock Conversion Using Supercritical MeOH.”

Privitera, Marc P. *Waste-to-Fuels Conference*. San Diego, CA; September 26, 2011. Presentation.

“Instrumentation, Automation and Control Applications in a Supercritical Biodiesel Process.”

Privitera, Marc P. *AIChE Spring Meeting*. Chicago, IL; March 14, 2011. Presentation.

“Combinational Multi-Feedstock Biorefining.”

Borgese, Christina M. *Pacific West Biomass Conference*. Seattle, WA; January 11, 2011. Presentation.

“Landfills to Fuel Tanks - Feedstocks that Drive America.”

Borgese, Christina M. *Southeast Biomass Conference*. Atlanta, GA; November 4, 2010. Presentation.

“I Graduated! Now What? A Recent Alum’s Experience with Corporations and Start-Ups.”

Borgese, Christina M. *Is Working at a Start-Up Right For You?* UC Santa Barbara, CA; February 4, 2011. Presentation.

“Start-Ups - The Good, The Bad, and The Ugly.”

Privitera, Marc P. *Is Working at a Start-Up Right For You? Chemical Engineering Seminar at University of California at Santa Barbara*. Santa Barbara, CA; February 4, 2011. Presentation.

“Pilot Plants in the Food and Consumer Products Industries.”

Privitera, Marc P. and Reeder, David. *AIChE Annual Meeting*. San Francisco, CA; November 14, 2006. Session Chair.

“Pilot Plant Design and Optimization”

Privitera, Marc P. *AIChE Annual Meeting*. San Francisco, CA; November 14, 2006. Session Chair.

“Elegant Experimental Methodology in Pilot Plants”

Privitera, Marc P. and Johnson, Brian. *AIChE Annual Meeting*, Austin, TX; November 8, 2004. Presentation.