# Moving Forward Giving Back

AIChE Foundation Newsletter

**SEPTEMBER 2015**

## *Inside this Issue*



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## Sharing Our Stories

This summer, we had the opportunity to sit down with some of our leaders and learn a bit more about how their chemical engineering stories unfold. A common theme, of course, is how much AIChE means to them and how deep of an influence the Institute has had on many lives.

As the personal words throughout this issue will attest, AIChE is nothing if not a community of generous and passionate chemical engineers who, by working together across many diverse industries and giving back, are making a transformative impact on the evolution and future of the profession.

Thank you all for making such a meaningful difference for the future of AIChE and the benefits we provide to society and our profession.

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**Peter B. Lederman**

## A Moment with Pete B. Lederman, Chair, AIChE Foundation

Pete Lederman knew from a very early age that he wanted to be an engineer. He excelled in math and enjoyed science. He liked to read and approached the world with a thoughtful curiosity.

Pete was born in Germany and left for the United States with his family when he was seven. They settled in New York City and Pete attended Forest Hills High School. It was there where he was inspired by his chemistry teacher.

“By the time I entered the University of Michigan, I was advised by my mentors not to pursue aeronautical engineering, but rather to choose chemical engineering as my major.”

It was the right advice at the right time. After Pete graduated from Michigan, he said that he “was fortunate to be able to do the right things” and went on to have a very successful and unique career in chemical engineering.

“It’s important when you’re starting out to explore broadly, keep searching, and stay flexible, especially today. When I entered the profession, you stayed with one company for life. I was atypical in the sense that I had such a varied career. Most of my jobs found me. It was a matter of being in the right place at the right time.”

It probably goes without saying that some of Pete’s proudest professional moments were when he explored different career paths and opportunities.

“I was very proud to have gone back into teaching after working at Esso. I was about to be promoted, but I decided to accept an associate professorship at Brooklyn Polytechnic Institute and I developed and taught a 10-credit capstone course in process engineering.”

“I also went into the environmental field early on. I left Poly and started working at the U.S. Environmental Protection Agency as the Director of the Industrial Waste Treatment Research Laboratory. The staff and contractors made significant technical contributions in a broad range of fields including oil fingerprinting and oil spill cleanup prevention of industrial pollution; I was recognized for the work in these areas.”

But most significantly, Pete said, “This was where I learned to be a manager. I learned that you are as good as the people you have working with you. While in Washington with the EPA I learned that you have to be able to communicate with people at levels they can understand. This is how

you get your job done. These lessons stood me in good stead during my eleven years as a consulting company executive. I finished my active career back in academia as an administrator. I feel proud that I still have friends in all the places I worked."

We asked Pete how his active and longtime 62 year involvement in AIChE has enriched his life.

"AIChE has given me the opportunity to give back and to interact with many different people in the profession. It has helped me develop necessary interpersonal skills and has afforded me the opportunity to meet leaders who have made significant contributions to the profession and society. Through my volunteer work with the National Program Committee as well as the Professional Development, Continuing Education and Government Relations Committees as well as the Local Section, Environmental Division, SIOC and the Foundation, I have gotten to do and learn many things. I have made lifelong friendships from being active and involved in AIChE."

When asked what it is about chemical engineering that he is most passionate about, Pete replied with ease and confidence: "Our profession has the ability to make the world a better place."

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**June C. Wispelwey**

## A Conversation with June C. Wispelwey, Executive Director, AIChE

*We sat down with our Executive Director, June C. Wispelwey, to gain some insight on her career path and what led her to chemical engineering.*

**When did you know that you wanted to be a chemical engineer?**

I remember exactly when I decided to become a chemical engineer. In tenth grade, I took a biology course that required a report on an ecosystem. I decided to search the Tundra, which was far more interesting than I could have ever imagined. At the time, the Alaskan pipeline was being built, and engineers were being challenged with maintaining the permafrost, the migratory patterns of wildlife and the active flora and fauna. I saw that chemical engineers had a very interesting but challenging job, and I felt up to that challenge. Ironically, my first industrial job involved working for one of the co-owners of the pipeline company, ARCO.

**Who are your heroes and why?**

One of my heroes is Margaret Hutchinson Rousseau, the chemical engineer who designed the first commercial plant that produced penicillin. She was also the first female member of AIChE. Dr. Rousseau's contribution to the health of many is an example that I have used countless times over the years in describing the amazing power of bringing a lab-scale discovery to commercial operations and making that chemical and discovery economically viable. Dr. Rousseau also worked on the design of synthetic rubber plants for World War II, developed high-octane aviation fuel, and improved distillation column design for ethylene glycol and glacial acetic acid. It is no wonder she was the first recipient of our own Founders Award,

in 1983.

**If you were just starting out in your career as a young professional chemical engineer today, what would you do differently knowing what you know now?**

If I were just starting out my career today, I would have focused earlier in my career on soft skills. My first jobs were very technical, and so were the skills that I needed to accomplish them. But as I moved from technical to management, I needed softer skills, such as management, leadership, presentation, and influence without authority. I believe it is best to have these skills before you need them.

**When you're not working, what is one of the things you most love to do?**

I love to do many things when not working, so it's really difficult to choose. I like walking in the state park on Saturday mornings with friends. I like cozying up with a good book – I just downloaded *Go Set a Watchman*. I enjoy doing Bikram yoga, which gives me enormous mental and physical benefits. I love spending time with my husband, son, and friends, while enjoying a home-cooked meal, golfing or relaxing on a beach.

**Describe one transformative innovation (related to chemical engineering) you would like to see happen in your lifetime.**

Chemical engineers continue to surprise me with their creativity, so there are many transformative innovations that we will likely see in our lifetimes. The one that I would be most grateful for is a cure for diabetes. The son of a close friend of mine has Type I diabetes, and I understand the difficulties associated with glucose regulation, issues involving under or over dosing insulin, and constraints on one's activities. Chemical engineers are involved in the new field of translational science, a discipline that improves healthcare by translating discoveries into diagnostic tools, medicines, procedures, policies and education. These chemical engineers could potentially cure diseases such as diabetes and help the many people that are afflicted with the disease.

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## AIChE Foundation Governance Update

**Sharid Yosufzai**

### Welcome Shariq Yosufzai, Vice Chair for Corporate Engagement

We are thrilled to welcome Shariq Yosufzai in his new role as Vice Chair for Corporate Engagement for AIChE's Foundation. Shariq, an AIChE fellow, the inaugural winner of AIChE's Industry Leadership Award, the winner of the 2013 Fuels & Petrochemicals Division Award and the Management Division's Robert L. Jack's Memorial Award, to name but a few honors, brings years of expertise to the Foundation. Shariq is passionate about diversity and the importance of young engineers using AIChE as a leadership laboratory to develop their skills.

*Shariq shared with us his strong connection to chemical engineering, his*

*thoughts on the future of the profession, and the positive impact it can have on society.*

**Describe your typical workday?**

In my role as Vice President for Global Diversity, Ombuds, and University Affairs for Chevron, every day can be different. When I come to work, typically I receive 100-150 emails each day so I use technology to separate action items from items that are for information. I manage relationships with over 100 universities and 30 partner organizations, am a member of many professional organizations and hold a seat on many boards, so 50% of my time is spent dealing with external constituencies and honoring the 30-40 speaking engagements I have every year. The balance is spent in managing the functions over which I have oversight.

**If your college had offered a class on real-life skills for the aspiring chemical engineer, what would you want them to teach?**

I believe it's very important that we create opportunities for students to develop skills that will position them for future career success. Some skills need to be honed through actual experiences. We must create opportunities for students to collaborate with their peers from other disciplines, everything from Anthropology to History. Life skills can be learned by sharing experiences with students from different course trajectories and backgrounds. The solution to most problems is better if we take a multi-disciplinary and holistic approach. Georgia Tech, for example, has an innovative model, an open learning environment that values these key tenets. I think it's a superb model for how universities and colleges should move in the future.

**What do you think is the biggest misconception about chemical engineering?**

People think chemical engineering is limited to processing petrochemicals or hydrocarbons rather than creating solutions that solve the world's problems. The creation of medicines like Penicillin, the development of tools to provide clean water and energy production are all advancements made possible by chemical engineering and support us in our ability to lead modern safe lifestyles. Over two billion people in the developing world live on $1 a day. They need access to energy, clean water and a better quality of life. Chemical Engineering provides valuable pathways to all of these needs in a methodical way.

**What are you working on that may most positively impact society or the future?**

I'm very proud to have helped develop a new program here at Chevron. We have invested $5 million in an initiative called "The Texas A&M-Chevron Engineering Academy" which will allow students to complete the first two years of a Texas A&M University engineering degree at four Texas community colleges. We want to create a model of inclusion and diversity in the engineering field because here at Chevron we believe innovation happens from ingenuity, and ingenuity comes from diversity. Building a bridge for students from diverse communities to Texas A&M is one way we

are driving innovation. At Chevron we believe that diversity is not only the right thing to do, it's a business imperative.

**How has AIChE enriched your life?**

Very early in my career, I became Chairman of the Southeast Texas Local Section of AIChE. My leadership qualities were developed by this early exposure to setting a vision; planning, motivating, communicating the vision to a team and driving performance. I believe AIChE is a learning laboratory to learn those skills. I've had the pleasure of meeting many wonderful individuals and professionals from all walks of life and different areas of society through AIChE.

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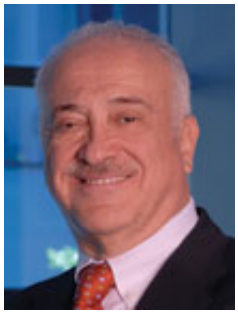

**Eduardo D. Glandt**

### Eduardo D. Glandt retires as Nemirovsky Family Dean, School of Engineering and Applied Science, and Professor Chemical and Biomolecular Engineering, at the University of Pennsylvania

Dr. Eduardo Glandt, the Vice Chair of the Foundation, retired his post as Dean of Engineering at the University of Pennsylvania in June 2015. This comes after a tremendous, storied career that has lasted over four decades and has impacted many individuals across the field of chemical engineering.

He is a member of the National Academy of Engineering, the American Institute of Chemical Engineers, the American Chemical Society, and the American Physical Society. He earned a bachelor's degree from the University of Buenos Aires in 1968 and a Ph.D. in chemical engineering from the University of Pennsylvania in 1977.

The Institute salutes Eduardo for his amazing contributions to the profession and wishes him the absolute best in his retirement. We are fortunate to have Eduardo's outstanding leadership and look forward to continuing our work together.

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**Bill Byers**

### Bill Byers steps down as Vice Chair of the Foundation

Bill Byers, VP & Technology Fellow at CH2M Hill, has decided to step down as Vice Chair of the Foundation due to personal matters. Bill, an AIChE Fellow and Past-President, will remain a member of the Foundations' Board of Trustees. We are extremely grateful for his service to AIChE and the Foundation and wish him the best in his future endeavors.

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## Trustee News

### AIChE Fellows

Congratulations to Trustees James Turner and Eduardo Glandt, who have

James Turner

been elected as Fellows, AIChE's highest grade of membership.

Please click here for a list of fellows.

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Gavin Towler

### Towler elected to National Academy of Engineering (NAE)

Trustee, Gavin Towler, CTO & Vice President of Research & Development at UOP LLC, was elected to the NAE for process designs for commercial petrochemicals and for leadership in refining and chemical research. Gavin joins an illustrious group of fellow AIChE trustees and donors in the NAE. For a full list of NAE members please click here.

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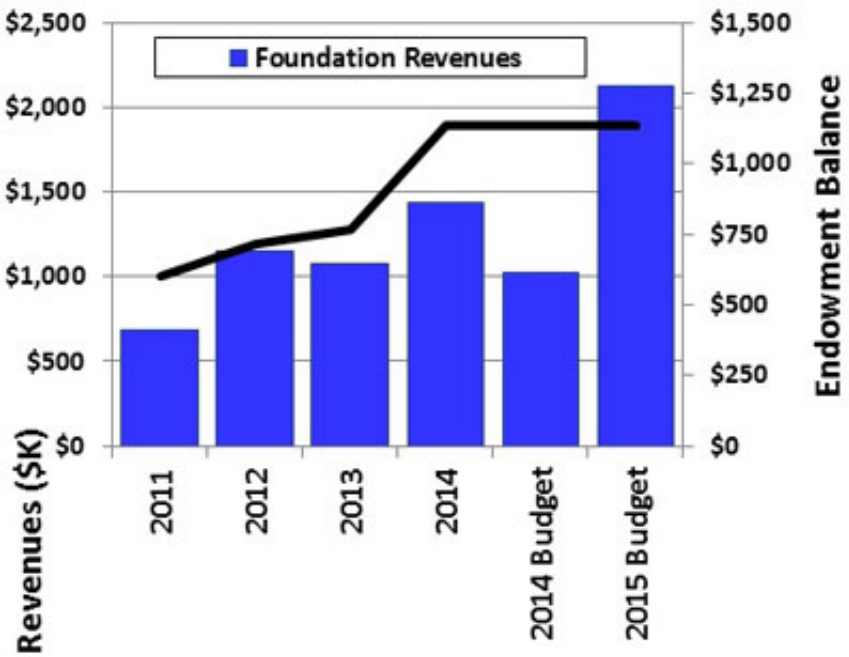
## Financials

Thanks to the generous support of our donors, the Foundation continues to experience exponential growth. We'd like to thank you all for your contributions which have aided us in furthering our strategic goals for AIChE today and in the years to come.

**REVENUE & EXPENSES**




** Reflects the financial results for the Year Ending 12/31/2014*

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## 2015 AIChE Spring Meeting Highlights

In April, AIChE held its 2015 Spring Meeting and 11th Global Congress on Process Safety, in Austin, Texas. Here are some highlights from the meeting.

**AGILE Award Recipient Marvin O. Schlanger Delivers 2015 Spring Meeting & 11th GCPS Keynote Address**

Marvin O. Schlanger, Chairman and former Chief Executive Officer of CEVA Group PLC and former Chairman of the Supervisory Board at LyondellBasell Industries, N.V., received AIChE's Government and Industry Leaders (AGILE) Award — an award given by the AIChE Board of Directors to those individuals who have made significant contributions to the chemical engineering profession and whose contributions and initiatives have made a significant impact within the chemical engineering industry.

*Following his opening keynote address, Marv sat down with ChEnected to share his thoughts on leadership among chemical engineers and strategies for managing career opportunities.*

Hear what he had to say in this video.

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### Engineering Diversity Initiatives Workshop

AIChE's 2014 Gala celebrated excellence in advancing diversity in the engineering profession and raised funds for the Institute's continued efforts to promote diversity in the chemical engineering workforce. As a result, a Diversity Workshop was held at the Spring Meeting in Austin, bringing together institute leaders, companies' diversity representatives, and members from underrepresented and underserved groups to share experiences and ideas. Content from this workshop will help form the basis for a Diversity Summit to take place at the Annual Meeting in Salt Lake City, UT. The panel included Chastity Harmon, Manager of University Relations and Diversity Outreach at Praxair; Audrey Goins-Brichi, Manager of Diversity and Inclusion in Chevron's Office of Global Diversity, Ombuds and University Partnerships; Karen Horting, Executive Director and CEO of the Society of Women Engineers (SWE); Rodolfo Jimenez, STEM Coordinator at the University of Texas at Austin; and moderator, Zenaida Gephardt, AIChE Fellow, SIOC Past Chair and Associate Professor at Rowan University. After the workshop, AIChE had the opportunity to interview Audrey and Karen in more depth.

Watch the interviews here:
Karen Horting, SWE
Audrey Goins-Brichi, Chevron

Click here to learn more about AIChE's Diversity Programs.

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### Introducing High School Students to Engineering


On Tuesday, April 28, 2015, The McKetta Department of Chemical Engineering of The University of Texas at Austin partnered with AIChE's Fuels and Petrochemicals Division to host an outreach event on UT's campus for more than 100 high school students.

The event, Being an Engineer—Creating a World that Works, introduced local high school students to engineering and how engineers help change the world. AIChE Fellow and Astronaut, Al Sacco, the first chemical engineer in outer space, gave the keynote address, followed by a panel discussion with engineering professionals, faculty and current engineering students.

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**Deborah L. Grubbe in Action at the Spring Meeting**

AIChE Trustee, Fellow and Owner & President of Operations and Safety Solutions, LLC, Deborah L. Grubbe, delivered the keynote, "Stand, Serve, Smile….Succeed," at the Women's Initiatives Committee (WIC) Luncheon. Deb shared her advice and insight about leadership, teamwork, respect, confidence and humility.

Deb also lent her expertise to the Big Data Topical. See her interview here.

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## Corporate Corner

DOW®

An AIChE Technology Alliance
CCPS
Center for Chemical Process Safety

**Undergraduate Process Safety Boot Camp**

Thanks to the support of Dow, AIChE held a very successful student boot camp March 31 – April 1 at New Mexico State University. The evaluations from the 19 student participants were universally positive.

The smiling faces of the student attendees on the photo above attest to their enthusiasm. Even more importantly, thanks to Dow's support, a cadre of well-trained chemical engineering students will enter the workforce better prepared in their understanding of process safety. Industrial incidents may be averted — and lives saved — because of their enhanced comprehension of process safety fundamentals and best practices.

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### Undergraduate Process Safety Learning Initiative

To mark 30 years of leadership, and move closer to the shared goal of excellence in process safety performance, the Center for Chemical Process Safety (CCPS), in collaboration with its industry and academic partners, is undertaking a major global effort to expand and accelerate undergraduate process safety education to meet with the Accreditation Board for Engineering and Technology (ABET) requirements. Guided by a comprehensive vision, CCPS is looking into the not-too-distant future to define how great process safety is delivered when it is collectively and fervently supported by industry, regulators, academia and the community worldwide. The Undergraduate Process Safety Initiative is a multi-prong approach that will benefit companies, students, universities and ultimately society, and is a core funding priority of AIChE's "Doing a World of Good" campaign. Funds raised from the 2015 Gala will go towards funding this initiative. For more information, please contact Lisa Lanzkowsky at lisal@aiche.org.

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### Catalyst Award to Chevron

Chevron Human Energy™

Chevron received the prestigious 2015 Catalyst Award for its *The Chevron Way: Engineering Opportunities for Women* initiative. The award honors innovative initiatives by companies committed to the recruitment, development and advancement of women. Catalyst is recognized as the global leader in expanding opportunities for women and business. The 50-year-old organization is

considered a trusted resource for research, information and advice about women at work.

*The Chevron Way: Engineering Opportunities for Women* is a US-based initiative designed to attract, retain, develop, and advance women throughout the organization. The initiative outlines the values, behaviors, and strategies that guide Chevron as it works toward goals that meet short- and long-term business needs.

The initiative supports The Chevron Way, which defines the core values that guide individual actions and business conduct. Diversity is a key component of The Chevron Way, reminding employees and those with whom they interact that Chevron has an inclusive work environment and actively embraces a diversity of people, ideas, talents, and experiences.

Chevron's application for the Catalyst Award focused on how The Chevron Way has driven an increase in employee diversity and advancement of women over the last two decades, and has established the culture, values, and organizational context within which diversity and inclusion activities have thrived.

*For more information on Catalyst, please click here.*

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**Corporate Responsibility Profile: Cynthia Murphy**

Cynthia Murphy is Portfolio Manager, University Partnerships and Association Relations at Chevron.

**AIChE Foundation:** What is it about chemical engineering that you're most passionate about?

**Cynthia Murphy:** Chemical engineers are at the forefront of technology—we solve problems and turn ideas into reality through innovation, ingenuity and high performance. Chemical engineers work in many different areas such as energy, biotechnology, pharmaceuticals, environmental, food processing, and healthcare, and this continues to expand every day. To be a part of this diverse field is fascinating, challenging, and fulfilling, and I'm truly passionate that I am making a difference in the world as a chemical engineer. We believe that investing in STEM education is a national imperative.

**AIChE:** What are you working on that may most positively impact society or the future?

**CM:** As a manager within Chevron's University Partnerships and Association Relations organization, I directly support our efforts to attract and retain the best and brightest college students—future engineers and scientists—to solve problems that impact society. Our university recruitment efforts are targeted in the areas of science, technology, engineering, and math (STEM) to support our world-wide operations. We believe that investing in STEM education is a national imperative. Improving and supporting STEM education will help build a highly skilled and technically proficient workforce that can compete, and excel, in the careers that fuel innovation, help solve some of our biggest challenges, and provide business and overall economic strength and competitiveness.

**AIChE:** Do you believe a campaign that supports the five transformative areas is vital to the future of chemical engineering? If so, why?

**CM:** By defining and implementing the five transformative areas, AIChE will provide focus in priority

areas—within a discipline that in and of itself is very diverse—to support the profession as it continues to grow and enhance its contributions to solving societal challenges.

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## Donor Spotlight

Jim Deam's commitment to the advancement of the chemical engineering profession has been demonstrated by his dedication, support, service and leadership over the course of his 50+ years of membership in our organization.

Jim joined the AIChE in 1964 and was elected to Fellow, our highest membership honor in 1993, in recognition of the noteworthy contributions he has made to the chemical engineering profession and to AIChE.

The AIChE Legacy Society was established in 2007 to honor all those who have taken the special step of including AIChE in their long-term plans through a bequest provision, life-income gift, or other deferred giving arrangement. Find out why he was inspired to join AIChE's Legacy Society.

**When did you know that you wanted to be a chemical engineer?**

I took to math very early and was always trying to find faster ways to calculate numbers without using paper. But I also found a strong interest in the sciences during 9th grade, especially in the history of chemical sciences. It wasn't until high school chemistry, learning about chemical reactions, that I nailed it -- a career in chemical engineering which included chemistry and math would interest me greatly.

**Who are your heroes and why?**

It didn't seem corny to me that my parents were heroes. Their fathers died when my parents were young children, consequently they struggled, they never complained, but they made it and gave us kids a better life. As an aspiring baseball (centerfield) player, my hero was Babe Ruth. He produced more than even whole teams did, and the way he cared for children, he gave them hope. Professionally, starting out and lasting a career, Jim Fair from Monsanto was a mentor and hero.

**If you were just starting out in your career as a young professional chemical engineer today, what would you do differently knowing what you know now?**

What would I do differently today starting out as a young chemical engineer? I would develop stronger relationships with business people and clients in my company and with engineers in other companies. Don't bury yourself in your work. Use the power that relationships can bring.

**What is it about chemical engineering that you're most passionate about?**

Those who know me know that I am very passionate about the chemical industry and especially its people. There you will find a group of people dedicated to developing products and services to improve people's lives.

**What was one of the most noteworthy experiences at AIChE that shaped your career?**

At AIChE, that would be as Meeting Program Chair for the 1993 Annual Meeting in St. Louis. At that time, AIChE financial constraints were a huge focus, so the number of technical sessions had to be reduced. Each division programming chair brought his/her full requests forward, and there were

many hard negotiations to do. But I got to meet so many great educators and industry people and gained respect for them and their disparate needs.

In my first few years in Monsanto, I had the privilege of working in the development and rollout of FLOWTRAN (process simulation system). We felt all engineers would immediately take to this great tool, but found that wasn't the case. We should have spent more time focusing on the benefits it would bring to the individual engineering locations given their work methods and constraints.

**What was the most important consideration in your and Janet's decision to make such an extraordinary legacy gift to AIChE last year?**

Participating in AIChE meetings, forums, and technical sessions permitted me to meet and develop so many contacts in industry and academia. I benefited, as discussions with these contacts helped me in business development during the second stage in my career. I strongly feel that payback is important to do, so that AIChE can help others. Janet and my family solidly support this decision.

*To find out more about the AIChE Legacy Society, click here.*

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## Join the Minority Affairs Committee (MAC) in Celebrating 25 Years of Promoting Diversity in Chemical Engineering


This year, AIChE's Minority Affairs Committee (MAC) marks 25 years of leadership in promoting diversity and inclusion in AIChE and the chemical engineering profession.

Join the committee and the AIChE Foundation as we celebrate the committee's significant achievements and set our sights on an even brighter future for MAC, AIChE, and the profession.

**Save the Date! Pioneers in Diversity Awards Ceremony: Monday, November 9th, 12:30pm, AIChE 2015 Annual Meeting, Salt Lake City, UT**. Invited talks and recognition of individuals who have most influenced the success of MAC, AIChE, and the profession.

**Save the Date! MAC @ 25 Reception: Monday, November 9th, 8pm, AIChE 2015 Annual Meeting, Salt Lake City, UT**. A party hosted by MAC, WIC (Women's Initiatives Committee) and the AIChE Foundation to celebrate the committees' history and continued influence for the future.

*The Minority Affairs Committee promotes activities that encourage the education and training of disadvantaged minorities in engineering and related disciplines; fosters the employment of minorities at all levels of skills within the engineering field; encourages minority entrepreneurship; and directs the expertise of engineers to the solution of special social and economic problems faced by such minorities.*

Learn more about MAC

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## 2015 AIChE Annual Gala


AIChE's 2015 Gala will celebrate the 30th anniversary of its Center for Chemical Process Safety (CCPS). Honorees and their companies are being recognized for their distinguished leadership in advancing Process Safety in the workplace and protecting our communities.

The 2015 Gala will raise funds for the Institute's continued efforts to advance process safety knowledge and expertise of chemical engineering graduates worldwide so they are better prepared for the workforce. Accelerating undergraduate process safety education also is a core initiative of our Foundation's Campaign for AIChE, "Doing a World of Good."

For more information on this year's Gala, please visit www.aiche.org/gala.

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## 2015 AIChE Annual Meeting: Register today!

Join us in Salt Lake City, Utah for AIChE's 2015 Annual Meeting, November 8-13.

15AIChE
Annual Meeting, Salt Lake City, UT

**New for 2015:**
• Entrepreneurial Chemical Engineering Sessions
• Chemical Engineers in Medicine Topical Conference

**Meeting Highlights — Save the Date:**

| Date | Event | Invitees |
|---|---|---|
| Sunday, November 8 | Welcome Ceremony | All |
| Sunday, November 8 | Honors Ceremony | All |
| Sunday, November 8 | 9th Annual Donor Dinner | By invitation only |
| Sunday, November 8 | BOT Meeting | BOT Members only |
| Monday, November 9 | Pioneers in Diversity Awards Ceremony | All |
| Monday, November 9 | MAC @ 25 Reception | All |

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## Annual Fund - Global Impact

AIChE's Annual Fund plays a key role in supporting initiatives across the Institute which in essence supports opportunities around the world. Using resources from the Annual Fund, the Foundation awards grants to various programs such as the International Student Chapter Leadership Development Travel Grant, Engineers Without Borders and other various impactful initiatives.

*Below are testimonials from students detailing their experiences with AIChE as a result of programs funded by the contributions from our donors.*

### International Student Chapter Leadership Development Travel Grants

Thanks to your support of the Annual Fund, we've had the pleasure of funding travel for international student chapter leaders from around the globe to attend the Annual Student Conference. Here's what they had to say.

**YAN QI, Soochow University, China**

*The Chem-E-Car Competition® is my favorite part. Since I was a freshman in school. I have heard about the Chem-E- Car Competition® from my advisor. Actually, one of my advisors had participated the competition and got a prize. So when he told me about his own experience, I was full of expectation. I repeated reading this part on the web site. And it really surprised me when I been there. Words and pictures cannot expressed the fantastic atmosphere really cannot be expressed. The serious judges, the nervous competitors, the crazy audiences. As for the cars, they are so amazing. When I saw these intelligent cars, what jumped into my mind is that I really want to make one by myself! I also took lots of pictures and videos and took it back to my chapter members. They all love it so much as I.*

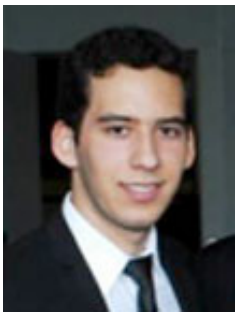
To read more, click here.

**SARAH TAREK, Cairo University, Africa**

*Actually it was a totally different experience for me; it helps me a lot to enrich my leadership skills. I transferred to my colleagues the knowledge I gained from the sessions I attended about our career. Beside that I tried to apply the same way you applied in organizing such a big conference in organizing our events. Actually I was impressed by how you were able to organize such a big conference in that very accurate way.*

To read more, click here.

*Below, hear from Enrique Estrada Zavala, a student from Tecnológico de Monterrey.*



**ENRIQUE ESTRADA ZAVALA, *Tecnológico de Monterrey***

*In November 2014 I was given the opportunity to attend the AIChE Annual Student Conference in Atlanta, GA, as one of the representatives from Tecnológico de Monterrey. At this event, I was able to gain new experiences by learning about different areas of chemical engineering, meeting new people, academics and professionals, and students that attend different universities across the United States.*

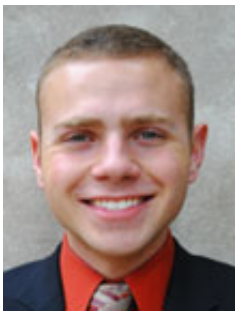
*The event was very helpful since it offered a wide variety of conferences, with interesting information for chemical engineers. It also provided the opportunity to get involved with others in social events, promoting the valuable exchange of knowledge and information. Furthermore, the travel grant given to foreign students is a great way to make AIChE more known around the world.*

To read more, click here.

### Engineers without Borders (EWB)

This past year, AIChE gave a grant to the Miami University Student Chapter to work jointly with the EWB student chapter on campus. David Macko is the project manager for the Rwanda program under the Miami University Chapter of EWB. His chapter sent a travel team to their partnering community in Rwanda this January.

*We asked David to discuss his life as a chemical engineering student, his plans for the future and his work with Engineers Without Borders.*



DAVID MACKO

**How did you decide to pursue a degree in ChE?**

Deciding a type of degree is a big choice for many students entering college. I would be lying if I said that I did not struggle with my decision. My mother worked as an engineer for most of her life and I had a great deal of interest in and appreciation for her career. I also consistently enjoyed learning about math and science was always my favorite subject. My two favorite classes in high school were chemistry and calculus. These were the biggest factors contributing to my decision. Chemical engineering provided me with the opportunity to pursue something that I could be passionate about.

**What is it about chemical engineering that you're most passionate about?**

Chemical engineering is a field with so many different components that make it great. I have found interest in anything from general mathematical concepts to learning about chemistry fundamentals. If I were to decide on a single aspect that I am most passionate about, it would be related to how universally applicable my knowledge is. With chemical engineering, I can take what I have learned and use it to work in any one of a variety of fields. I often find myself lost in the options but extremely motivated to explore the possibilities.

**How has Engineers Without Borders enriched your life?**

Engineers Without Borders has been an extremely significant part of my life. I have been a member of the Miami University Chapter of Engineers Without Borders for almost three years and it has been an incredibly fulfilling experience. It is tremendously rewarding to support people across the globe and create a lasting impact on our partnering communities. Knowing that our chapter makes a difference is incredible. I have also learned so much about leadership and teamwork and the people with whom I work have helped me become a better person. The experiences I have are nothing less than amazing and I am incredibly lucky to be a part of such an organization and surrounded by such great people. My time with EWB has and will continue to define me as a person.

**What are you most looking forward to after graduation?**

What I am most looking forward to after graduation is the unexpectedness of the future. What happens after I finish my college experience is somewhat of a mystery but not limited in any sense. The only thing that I can be sure of is that there will be challenges, but I am eager to face them. The person I am today is very different from the person I was three years ago (a fraction of my life) and the challenges I faced over that time have helped shape me. I welcome the road ahead and know that the journey I take will be great, only because it is my own.

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**Matching Gifts – Thank you for your Support!**

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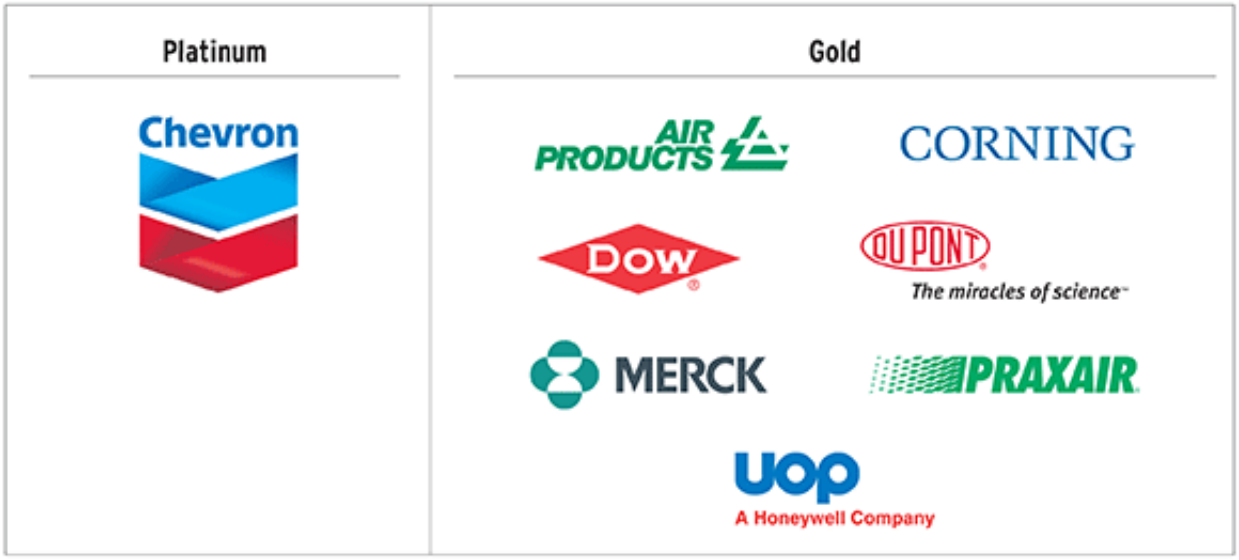


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