Welcome!

NPRE 2012 Interchange marks the fourth year the Nuclear, Plasma, and Radiological Engineering Department at Illinois has invited back alumni and friends to share with students information on employers, internships, and career opportunities and strategies. Participants are invited to interact with students in small group informational sessions and a panel discussion, and meet with faculty members.

Informational Sessions
Morning Sessions, 10:30 to 11:45 a.m.
(drop-in basis, all in Talbot Laboratory)
Argonne National Laboratory 111 Atrium
Exelon Corporation 220 Lounge
General Electric 220 Lounge
Sargent & Lundy 100H
Starfire Industries 111K
Afternoon Sessions, 2:30 to 3:45 p.m.
(drop-in basis, all in Talbot Laboratory)
Argonne National Laboratory 111 Atrium
Exelon Corporation 220 Lounge
General Electric 220 Lounge
Sargent & Lundy 100H
Starfire Industries 111K

Panel Discussions
4 to 5:30 p.m., 103 Talbot Laboratory
Moderators: Jim Stubbins, NPRE Department Head
Pizza to be served

Argonne National Laboratory: Presentation and Q&A
Exelon Corporation: Presentation and Q&A
General Electric: Presentation and Q&A
Sargent & Lundy: Presentation and Q&A
Starfire Industries: Presentation and Q&A
General Questions

Panelists

Gabriel Chavez, B5 07, is a Dry Cask Storage Program Manager for LaSalle and Clinton stations in Illinois, and has over 5 years of experience in Reactor Engineering. Currently, Chavez works at Exelon Generation’s LaSalle County Nuclear Generating Station in Marseilles, Illinois, where he is charged with coordinating spent fuel loading campaigns (SFLC) and ensuring the station’s dry cask storage facility (DCSF) meets all regulatory and operational requirements. Chavez is also currently pursuing his MBA in Financial Management and Control at the Kellogg Graduate School of Business at DePaul University.

Kenneth J. Green, B5 71 Mechanical Engineering, is a Vice President and Project Director at Sargent & Lundy in Chicago. In addition to his degree from the University of Illinois, Green earned a master’s in mechanical engineering from Old Dominion University in 1974. He has been with S&L for over 35 years in various positions, almost all in nuclear plant design. In addition to project work, he has held positions of Department Manager for Mechanical Engineering and Systems Engineering. He has also been involved with quality program development and implementation of deliverable focused engineering processes. Green has been involved with system design, safety analysis and licensing of new nuclear units in the United States and internationally and with various modification and backfit work for operating nuclear units. Most recently, he has been the Project Director for a major nuclear power plant design project at Los Alamos National Laboratory in New Mexico.

Christopher Holzer, is General Electric’s Water Field Services Site Manager at the LaSalle Nuclear Station. He started in the nuclear power industry in 1992, has held various and increased roles of responsibility for multiple nuclear customers in North America, where GE leads in outage and operational cycles. These projects include refueling and reactor services as well as turbine services. Currently stationed at the LaSalle Nuclear Station in Marseilles, Illinois, Mr. Holzer supports multiple sites focusing on water treatment technologies, including reactor make-up, cooling water, wastewater re-use to accomplish zero discharge; and utilization of thermal processes, membrane technologies, ion exchange, and electro-deionization. Education and training includes undergraduate studies in management and technology and multiple industry certifications.

Edward A. McVey, B5 83, is Manager of Emerging Issues and Reactor Oversight for Exelon Corp.’s Cantera Nuclear Fuels headquarters in Warrenville, Illinois. Since 2010, McVey’s responsibilities have included: • Fleet Reactor Engineering Performance Monitoring; • Nuclear Fuels and Reactor Engineer Training; • Working on Fleet Fuels-related Emergent Issues such as Site Assessments, Root Causes, and Technical Issues. • Chairing BWR/ROG Reactivity Control Review Committee. Spending his career with Exelon (formerly Commonwealth Edison), McVey’s other positions have been:

Friday, October 5, 2012

Friday, September 30, 2011

Panelists

Brian E. Jurczyk, B5 95 Aerospace Engineering, MS 97, PhD 01, MBA 01, is President of Starfire Industries, which specializes in innovative plasma engineering across a range of markets, including aerospace/defense, nuclear/homeland security and manufacturing/semiconductors. As the company’s co-founder, Jurczyk’s duties are overall strategic planning, operations management and business development. Starfire operates on the Research Park at the University of Illinois at Urbana-Champaign.

Michael D. Kaminski, B5 94, MS 96, PhD 98, is Leader of the Nuclear Forensics and Nanoscale Engineering Group at Argonne National Laboratory. He is responsible for developing new technologies in nuclear separations research and detection for Homeland Security and Defense. Kaminski’s expertise is in nuclear separations, magnetic separations, radiological and nuclear decontamination, drug delivery and targeting of polymeric microspheres and nanoparticles. Kaminski’s research has involved three primary areas. He has been involved in nuclear waste minimization and stabilization technology since his undergraduate studies where he developed magnetic polymeric microspheres for selective radionuclide separations. He is also responsible for advanced nuclear fuel cycle waste development under the Advanced Nuclear Fuel Cycle Initiative within DOE including thermal transport, radiation dosimetry, and facility design. Next, he has developed technologies for decontamination of nuclear facilities and clean up of urban centers following a radionuclide release. Finally, he is developing medical treatment technologies based on magnetic nanoparticles that he originally developed under an alternative nuclear waste management program for the Department of Energy.

This work has been recognized by his colleagues and by DOE for the development of innovative plasma engineering technology. Jurczyk’s duties are overall strategic planning, operations management and business development. Starfire operates on the Research Park at the University of Illinois at Urbana-Champaign.

Michael D. Kaminski, B5 94, MS 96, PhD 98, is Leader of the Nuclear Forensics and Nanoscale Engineering Group at Argonne National Laboratory. He is responsible for developing new technologies in nuclear separations research and detection for Homeland Security and Defense. Kaminski’s expertise is in nuclear separations, magnetic separations, radiological and nuclear decontamination, drug delivery and targeting of polymeric microspheres and nanoparticles. Kaminski’s research has involved three primary areas. He has been involved in nuclear waste minimization and stabilization technology since his undergraduate studies where he developed magnetic polymeric microspheres for selective radionuclide separations. He is also responsible for advanced nuclear fuel cycle waste development under the Advanced Nuclear Fuel Cycle Initiative within DOE including thermal transport, radiation dosimetry, and facility design. Next, he has developed technologies for decontamination of nuclear facilities and clean up of urban centers following a radionuclide release. Finally, he is developing medical treatment technologies based on magnetic nanoparticles that he originally developed under an alternative nuclear waste management program for the Department of Energy.

This work has been recognized by his colleagues and by DOE for the development of innovative plasma engineering technology. Jurczyk’s duties are overall strategic planning, operations management and business development. Starfire operates on the Research Park at the University of Illinois at Urbana-Champaign.

Thomas E. Sowinski, B5 05, is a Qualified Nuclear Engineer in the utility industry with 3+ years experience in Reactor Engineering. Currently, Sowinski works at the Dresden Generating Station in Morris, Illinois, where he is charged with maintaining and monitoring one of the reactors at a dual BWR site.

Eric J. Stein, B5 10, is a Reactor Engineer at the LaSalle County Nuclear Generating Station. Starting in this position in the summer of 2010 after graduating from the Department of Nuclear Engineering and Radiological Engineering at the University of Illinois, he has obtained the certification of Qualified Nuclear Engineer. Amongst his fellow Reactor Engineers, Stein specializes in Fuel Reliability, which encompasses monitoring degraded fuel, planning strategies to minimize further degradation to damaged fuel, and the development of further preventative measures to ensure the integrity of the fuel is not compromised. Stein also the Core Monitoring System (CMS) Administrator and presiding over the transition from AREVA’s Powerplex CMS to 3D Monicore, Global Nuclear Fuels’ CMS. His full-time position with Exelon was achieved after two summer internships in Reactor Engineering, one at the Byron Nuclear Generating Station and the other at LaSalle.

Panelists

Jurczyk

Kaminski

Sowinski

Stein

Green
Welcome!

NPRE 2012 Interchange marks the fourth year the Nuclear, Plasma, and Radiological Engineering Department at Illinois has invited back alumni and friends to share with students information on employers, internships, and career opportunities and strategies. Participants are invited to interact with students in small group informational sessions and a panel discussion, and meet with faculty members.

Informational Sessions
Morning Sessions, 10:30 to 11:45 a.m. (drop-in basis, all in Talbot Laboratory)
Argonne National Laboratory
111 Atrium
Exelon Corporation
220 Lounge
General Electric
220 Lounge
Sargent & Lundy
100H
Starfire Industries
111K

Afternoon Sessions, 2:30 to 3:45 p.m. (drop-in basis, all in Talbot Laboratory)
Argonne National Laboratory
111 Atrium
Exelon Corporation
220 Lounge
General Electric
220 Lounge
Sargent & Lundy
100H
Starfire Industries
111K

Panel Discussions
4 to 5:30 p.m., 103 Talbot Laboratory
Moderator: Jim Stubbin, NPRE Head Department Head
Pizza to be served
Panelists
Argonne National Laboratory: Presentation and Q&A
Exelon Corporation: Presentation and Q&A
General Electric: Presentation and Q&A
Sargent & Lundy: Presentation and Q&A
Starfire Industries: Presentation and Q&A

General Questions
Friday, October 5, 2012
12:30 to 1:30 p.m., Talbot Laboratory
Pizza to be served
Panelists

Panelists
Gabriel Chavez, BS 07, is a Dry Cask Storage Program Manager for LaSalle and Clinton stations in Illinois, and has over 5 years of experience in Reactor Engineering. Currently, Chavez works at Exelon Generation’s LaSalle County Generating Station in Marseilles, Illinois, where he is charged with coordinating spent fuel loading campaigns (SFLC) and ensuring the station’s dry cask storage (DCS) program meets 10CFR72 federal requirements. Chavez is also currently pursuing his MBA in Financial Management and Control at the Kellstadt Graduate School of Business at DePaul University.

Kenneth J. Green, BS 71 Mechanical Engineering, is a Vice President and Project Director at Sargent & Lundy, in Chicago. In addition to his degree from the University of Illinois, Green earned a master’s in mechanical engineering from Old Dominion University in 1974. He has been with S&L for over 35 years in various positions, almost all in nuclear plant design. In addition to project work, he has held positions of Department Manager for Mechanical Engineering and Systems Engineering. He has also been involved with quality program development and implementation of deliverable focused engineering processes. Green has been involved with system design, safety analysis and licensing of new nuclear units in the United States and internationally and with various modifications and back-fit work for operating nuclear units. Most recently, he has been the Project Director for a major nuclear laboratory facility at Los Alamos National Laboratory in New Mexico.

Christopher Holzer, is General Electric’s Water Field Services Site Manager at the LaSalle Nuclear Station. He started in the nuclear power industry in 1992, has held various and increased roles of responsibility for multiple nuclear customers in North America, where GE leads in outage and operational cycles. These projects include refueling and reactor services as well as turbine services. Currently stationed at the LaSalle Nuclear Station in Marseilles, Illinois, Mr. Holzer supports multiple sites focusing on water treatment technologies, including reactor make-up, cooling water, wastewater re-use to accomplish zero discharge; and utilization of thermal processes, membrane technologies, ion exchange, and electro-deionization. Education and training includes undergraduate studies in management and technology and multiple industry certifications.

Edward A. McVey, BS 83, is Manager of Emerging Issues and Reactor Oversight for Exelon Corp.’s Cantera Nuclear Fuels headquarters in Warrenville, Illinois. Since 2010, McVey’s responsibilities have included:
• Fleet Reactor Engineering Performance Monitoring
• Nuclear Fuels and Reactor Engineer Training
• Working on Fueling Fuels-related Emergent Issues such as Site Assessments, Root Causes, and Technical Issues.
• Chairing BWROG Reactivity Control Review Committee.
Spending his career with Exelon (formerly Commonwealth Edison), McVey’s other positions have been:

Friday, October 5, 2012
12:30 to 1:30 p.m., Talbot Laboratory
Pizza to be served
Panelists