

CCEFP Reorganizes and Announces Promotions

The new CCEFP organization will be divided into three clusters: one for administration, one for research, and one for education and outreach. To create the new organization, three people are being promoted.

Mike Gust will occupy the newly created position of chief of staff. This will be in addition to his current position as industrial liaison officer. As chief of staff, he will have overall responsibility for roles, responsibilities, policies and procedures of the Center.

Michael Goldfarb will join Perry Li as deputy co-directors. They will have responsibility for the Center's research mission. Responsibilities include developing and sustaining the strategic research plan, ensuring research connectivity, redirecting research projects when necessary, defining the overall roles and responsibilities of the research team, clarifying and enhancing fundamental research, and identifying and encouraging new research initiatives.

Don Haney will occupy the newly created position of communications director. His job responsibilities will include the website, promotional material, and major meetings.

Mike Gust will lead the Administrative Cluster, which will include Stephanie Bettermann, administrative director, and Don Haney, communications director. Perry Li and Michael Goldfarb will lead the Research Cluster, which will include the thrust leaders, Andrew Alleyne, Monika Ivantysynova, and Wayne Book. Will Durfee and Linda Western will lead the Education and Outreach Cluster, which will include Alyssa Burger, education outreach director.



Mike Gust, Stephanie Bettermann, and Don Haney



Perry Li



Michael Goldfarb

CCEFP at Science Museum of Minnesota

The Fluid Team is a group of high school students that investigate compact and efficient fluid power, the science behind hybrid cars, robotics and prosthetic limbs. Over the summer, the team interviewed graduate students and faculty members about current research test beds, and they are finishing an exhibit to be on display in the Experiment Gallery at the Science Museum of Minnesota.

The team worked with over 1,400 museum visitors and children on outreaches in the community to educate the public about their projects. The team also spoke at the St. Paul City Council to accept a resolution on behalf of the work they and other youth in the Kitty Andersen Youth Science Center accomplished in the past year.

Four new members joined the team at the start of the school year.



Fluid Team at Science Museum of Minnesota

Student retreat at UIUC



Student Retreat Held at UIUC

The Student Retreat was held at UIUC on August 7-9, 2008. Over 20 students from six of the seven Center institutions attended, as well as five industry members. Activities included a viewing of "Discovering Fluid Power" made by Minnesota Public Television, a presentation by Keith Wait, newly elected Student Leadership Council president, lab tours and social events. New this year was a student/industry "speed meeting" session where five industry representatives were paired with groups of students for a period of ten minutes to talk about jobs and research.

CCEFP Sponsors FIRST Teams

In early 2008, the CCEFP sponsored the first Native American FIRST Robotics Team. The anishinaabeg ogichidaag earned 17th place out of over 50 teams in the Midwest Regional Competition.

The Center will continue to sponsor the ongoing FIRST Robotics Team by using a pipeline method of exposing science, technology, engineering and mathematics into Native education. The Center will sponsor a FIRST Lego League for young middle school students and a FIRST Tech Challenge Team for the older middle school students.

CCEFP Exhibits at Minnesota State Fair

The Center exhibited a display at the Minnesota State Fair. The CCEFP Fluid Power Exhibit (also on the floor of the Science Museum of Minnesota) provides a demonstration on the technology behind a fluid power hybrid passenger vehicle. This was a hot topic as fuel prices hit their peak over the summer months.

New Research Projects Funded

Five new projects have been funded for year three (2008-2009).

Effectiveness Thrust

Project 1B.2: Surface Effects on Start-up Friction and their Application to Compact Gerotor Motor Design by Ashlie Martini, Purdue

Project 1E.3: High Efficiency, High Bandwidth, Actively Controlled Variable Displacement Pump/Motor by John Lumkes, Purdue

Compactness Thrust:

Project 2B.2: Miniature HCCI Free-Piston Engine-Compressor by David Kittleson, UMN

Project 2C.2: Advanced Strain Energy Accumulator by Eric Barth, Vanderbilt

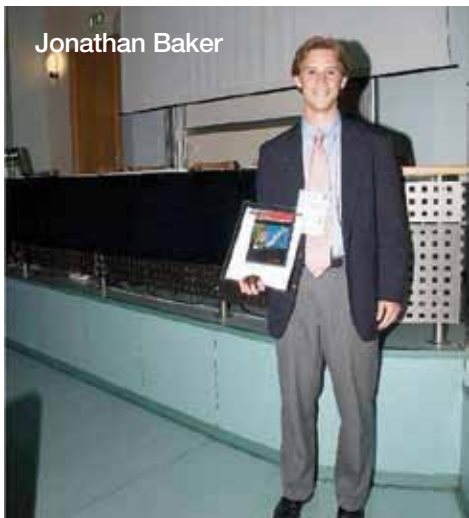
Efficiency Thrust:

Project 3D.3: Improved Seal Design Based on Adaptive Materials by Barney Klamecki, UMN

Student Receives Honors

The 5th Fluid Power Net International (FPNI) PhD Symposium was held in Cracow, Poland at the Cracow University of Technology from July 1-5, 2008. Faculty in attendance from the CCEFP included Dr. Monika Ivantysynova from Purdue University and Dr. Kim Stelson from the University of Minnesota. Both served as session chairs during the paper presentations. Six CCEFP students presented papers, five of whom were from Purdue University and one from the University of Minnesota.

Jonathan Baker of Purdue University was awarded best paper award and Najoua Jouini, also of Purdue, was recognized as being in the top six papers.



For more information about the Center for Compact and Efficient Fluid Power, visit www.ccefp.org.

www.ifps.org | www.fluidpowerjournal.com