



2014 Purdue Conferences
Compressor Engineering
Refrigeration and Air Conditioning
High Performance Buildings



ANNOUNCEMENT AND CALL FOR PAPERS

CONFERENCES JULY 14-17, 2014
SHORT COURSES JULY 12-13, 2014

**CORRECTED DATES!
PLEASE DISREGARD
ORIGINAL MAILING.**



General Chair

Eckhard A. Groll

International Compressor Engineering Conference Chair

W. Travis Horton

International Refrigeration and Air Conditioning Conference Chair

James E. Braun

International High Performance Buildings Conference Chair

Thanos Tzempelikos

Short Course Chairs

Ming Qu, Orkan Kurtulus

Student Paper Competition Chair

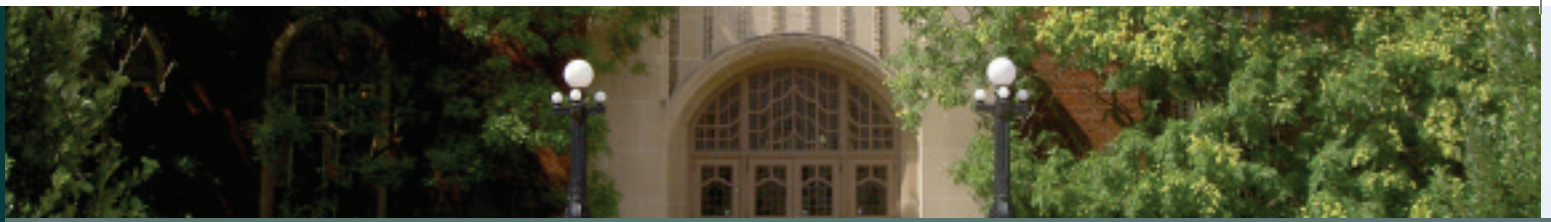
Panagiota Karava

ENDORISING AND COOPERATING ORGANIZATIONS



FOR OVER 40 YEARS...

Purdue University has played host to the International Compressor Engineering Conference, the International Refrigeration and Air Conditioning Conference (added in 1986) and the International High Performance Buildings Conference (added in 2010). These conferences provide a perfect venue to present research and development work, as well as network with top experts in the field.



CONFERENCE VENUE, DATES, ACTIVITIES

Date : Monday, July 14, 2014 at 10 a.m. - Thursday, July 17, 2014 at 5:00 p.m.

Location : Purdue University West Lafayette Campus - West Lafayette, IN

The conferences technical sessions run simultaneously enabling attendees to attend sessions of interest from any conference. Conference registration includes online access to the conference schedule, presented papers and all social networking events. The conferences will be conducted in English.

PROPOSED SESSION TOPICS

Compressor Engineering Conference



Scroll Compressors
Screw Compressors
Rotary Compressors
Reciprocating Compressors
Dynamic Compressors
Novel Compressor Mechanisms and Concepts
Numerical Modeling of Compressors
Thermal Management
Valve Design and Analysis
Compressors for Alternative Refrigerants
Compressors for Air and Industrial Gases
CO₂ Compressors and Expanders
Compressor Efficiency Enhancements
Tribology and Lubrication in Compressors
Noise Identification and Reduction
Variable Speed Compressor Technologies
Capacity Modulation Concepts
Compressor Testing and Evaluation

Refrigeration and A/C Conference



Refrigerant Assessments
Refrigerant & Oil Properties
Lubrication Characterization & Design
Heat & Mass Transfer Enhancements
Heat Transfer and Pressure Drop Characterization
Heat Exchanger Modeling and Design
Micro-Channel Heat Exchangers
Throttles and Expanders
Domestic, Commercial, and Industrial Refrigeration
Heat Pumps
Transportation Air Conditioning Equipment
Quasi-Steady and Dynamic HVAC&R Equipment Modeling
Advanced Controls for HVAC&R Equipment
Automated Diagnostics for HVAC&R Equipment
Vapor Compression Cycle Enhancements
Alternative Cooling and Heating Technologies
Heat-Driven Refrigeration Systems
Power and Co-Generation Systems

High Performance Buildings Conference*



Solar Energy Utilization in Buildings
Net Zero Energy Buildings
Renewable Energy Systems in Buildings
Geothermal Systems
Smart Buildings, Controls and Automation
Radiant Systems
Air Flow Modeling
Heat Transfer in Buildings
Ventilation & Indoor Air Quality
Building Envelope Systems and Facades
Indoor Environment
Visual and Thermal Comfort
Building Materials
Lighting and Daylighting
Building Performance Monitoring and Diagnostics
Low-energy Cooling and Natural Ventilation
Sustainable & Green Building Technologies
Building Simulation & Energy Modeling
Case Studies & Integrated Building Design

*The High Performance Buildings conference will include an industry forum with presentations and discussions about innovative building systems and technologies.



SHORT COURSES

Compressors

- Organized by Herrick Laboratories' faculty and graduate students
- Focus on positive displacement compressor modeling, such as scroll, rotary and reciprocating compressors
- Review and description of the mathematical modeling techniques to analyze positive displacement compressors, including submodels for leakage, valve, heat transfer and frictional losses
- Present parametric studies that investigate the impact of variation in geometric parameters on compressor performance.

Refrigeration

- Organized by the U.S. National Committee of the IIR in collaboration with Herrick Laboratories' faculty
- Focus on numerical optimization techniques for HVAC&R systems and components
- Review of software tools available commercially or open source
- Case studies with respect to performances, economics and life cycle assessment
- Recognized experts from around the world will share their knowledge and real-world experiences.



ABSTRACT AND PAPER SUBMISSION

Abstract & Paper Submission

- Visit www.conftool.com/2014Purdue to submit online.
- Choose most closely related topic area
- Submit your 500 word abstract and after acceptance, an 8 page paper.
- Please note that presenting authors must be registered by the March 16, 2014 manuscript deadline.
- Abstracts and papers must be submitted in English.

STUDENT PAPER COMPETITION

The conference organizing committee is pleased to invite students to submit abstracts for the 2014 Student Best Paper Award Competition. The following gives the eligibility information and other parameters for the competition:

- Students at the undergraduate level and graduate level at the time of submission are eligible to compete.
- Students must be the first author on the papers and must present their work at the conferences to compete.

Cash prizes will be awarded.

	DEADLINES	FEES
Abstract submission	December 20, 2013	
Abstract acceptance notification and instructions to authors for manuscript preparation	January 31, 2014	
Manuscripts submission deadline	March 31, 2014	
Notification to presenting authors of acceptance or rejection of manuscripts	April 28, 2014	
Pre-registration for the conferences ends. Final version of the papers must be uploaded at this time	May 16, 2014	
Presenting author registration	March 31, 2014	\$650
Student author registration	May 16, 2014	For 1 paper \$250 For 2 papers \$450 For 3 papers \$650
Non-author registration	May 30, 2014	Before May \$700 After May \$800
Student registration (non-author)	May 16, 2014	\$300
Short courses registration	May 31, 2014	Before Deadline \$650 After Deadline \$725

Groups of 6 attendees from the same employer receive 1 complimentary registration for every 5 paid registrations.
Group registration fees are \$3,500 before May 30, 2014, and \$4,000 after May 30, 2014.

IMPORTANT FACTS

- Conference Registration will be available online starting in January 2014 at www.conf.purdue.edu/compressor2014
- Companies wishing to register using a wire transfer will need to contact Kathy Walters directly at kw@purdue.edu or 765-494-2758. Note that additional wire transfer fees are included.
- All fees must be paid in U.S. funds and drawn on a U.S. bank. Fees paid in advance but not used will be refunded upon written request by June 25, 2014. We are not responsible for costs incurred due to cancellation.
- If you require a letter of invitation to obtain your travel visa, please contact Kim Stockment at kstockme@purdue.edu.
- For additional registration information, daily schedule, etc - please visit <https://engineering.purdue.edu/Herrick/Events/2014Conf/index.html>
- Continuing Education Units (CEU's) may be available.

Ray W. Herrick Laboratories
197 South Russell St.
West Lafayette, IN
47906-2099



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CONTACT INFORMATION

For Conferences and Short Courses
Kim Stockment
197 S. Russell St.
West Lafayette, IN 47907, USA
PH: (765) 494-6078
Fax: (765) 494-0787
E-mail: herlconf@purdue.edu

For Registration and payment
Kathy Walters, CMP, Senior
Conference Coordinator, 128
Memorial Mall, Stewart Center, Room 116,
West Lafayette, IN 47907
PH: (765) 494-2758
Fax: (765) 494-0567
E-mail: kw@purdue.edu

<https://engineering.purdue.edu/HerrickConf>



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