



## PURDUE CONFERENCES - JULY 16-19, 2012

21st International Compressor Conference

14th International Refrigeration and Air  
Conditioning Conference

2nd International High Performance  
Buildings Conference

## SHORT COURSES - JULY 14-15 and JULY 19-20 2012

Advanced Compressor Modeling

Update on Refrigerants

Fundamentals of Building Energy Auditing and  
Energy Management

Design of Net Zero Energy Homes

### Important Deadlines

January 6, 2012	Abstract submission deadline
January 30, 2012	Abstract acceptance notification and instructions to authors for manuscript preparation
March 30, 2012	Manuscripts submission deadline; the presenting author must be registered for the conferences at this time
April 27, 2012	Notification to presenting authors of acceptance or rejection of manuscripts; if paper is rejected, the presenting author registration fee is reimbursed in full
May 25, 2012	Pre-registration for the conferences ends. Final version of the papers must be uploaded at this time or the Final Paper WILL NOT BE published in the proceedings
July 14-20, 2012	Short Courses and Conferences take place

## WELCOME

Welcome to the 2012 Herrick Conferences page. The 21<sup>st</sup> International Compressor Engineering Conference, the 14<sup>th</sup> International Refrigeration and Air Conditioning Conference, and the 2<sup>nd</sup> International High Performance Buildings Conference will take place July 14-19, 2012 on the campus of Purdue University in West Lafayette, Indiana.

### 21<sup>st</sup> International Compressor Engineering Conference at Purdue

In 2010 the International Compressor Engineering Conference at Purdue celebrated its 20<sup>th</sup> gathering. Conference highlights include the presentation of 98 papers in 19 different sessions, covering a range of topics from conventional compressor design enhancements to novel and innovative compression technologies. Topics for the 2012 conference will include sessions on specific compressor technologies such as reciprocating, rotary, scroll, screw, centrifugal,

linear and novel compressors; in addition, there will be sessions that cover issues and present modeling and evaluation tools related to compressor design and reliability, such as noise control, vibration, gas pulsations, materials, lubrication, wear, and valves.

#### 14<sup>th</sup> International Refrigeration and Air Conditioning Conference at Purdue

The International Refrigeration and Air Conditioning Conference covers a wide range of topics of interest to researchers and engineers involved in the development of technology improvements and/or assessments of air conditioning and refrigeration equipment. In 2010, proceedings for this conference included 156 papers from authors all over the world. For 2012, we are soliciting papers on topics ranging from fundamental to applied, including heat transfer and fluid flow fundamentals, alternative refrigerants and working fluids, modeling of components and systems, heat exchanger enhancements and characterizations, controls, diagnostics, domestic, commercial and industrial refrigeration, heat pumps, transport refrigeration and air conditioning.

#### 2<sup>nd</sup> International High Performance Buildings Conference at Purdue

The International High Performance Buildings Conference started in 2010 and it was a great success. 56 papers were presented covering several areas of building design, operation and performance. The topics for the 2012 conference include: building envelope systems, indoor environment and air quality, visual and thermal comfort, building energy modeling and simulation, building materials, lighting and daylighting, building performance monitoring and diagnostics, HVAC systems, mixed-mode cooling and natural ventilation, building controls, net-zero energy building design, renewable and sustainable energy technologies for buildings, and related case studies on high performance building design and operation.

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### 2012 Short Courses at a Glance

As done as part of the previous conferences, three short courses will be offered prior to the 2012 Conferences. The topics of the short courses will be closely aligned with the three main themes of the conferences, i.e., compressors, HVAC&R systems, and high performance buildings. The short courses will take place on the Purdue University campus beginning on Saturday, July 14<sup>th</sup> at 1:00 p.m. and end on Sunday, July 15<sup>th</sup> at 5:00 p.m. This conference website will be updated with more details about the short courses in the near future. Registration fees will be \$625 for advanced full registration (prior to May 25, 2012) and \$700 after that date.

Please note that a 4th SHORT COURSE HAS BEEN ADDED AT THE END OF THE CONFERENCE. It will be held on Thursday, July 19, 2012 from 1:00pm to 5:00pm and July 20, 2012 from 8:00am to 12 noon.

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<https://engineering.purdue.edu/Herrick/Events/2012Conf/index.html>