PERSONAL INFORMATION – use one form per person to register

First Name: _______________________    Last Name: ___________________________
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METHOD OF PAYMENT
Registration Fee: $100.00 per person
__ Check or money order enclosed – payable to Rensselaer Polytechnic Institute.    
__ Purchase order enclosed or P.O. No.: ______________________
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HOW TO ATTEND
__ Call (518) 276-6431 to register by phone. The Academic Outreach Programs Office
   is open Monday-Friday 8:30a.m. – 5:00 p.m. EST.
__ Fax your registration form to (518) 276-8738.
__ Mail your registration form to: Rensselaer Polytechnic Institute – Attn: Academic
   Outreach Programs Office, 110 8th Street, Low Center Suite 4011; Troy, NY 12180-3590
How did you hear about this symposium? ________________________________________
____________________________________________________________________________
____________________________________________________________________________
The Knolls Atomic Power Laboratory (KAPL), Bettis Atomic Power Laboratory and Rensselaer Polytechnic Institute (RPI) are holding a symposium on April 29 and 30, 2009 to share and discuss the state of development and testing for supercritical carbon dioxide (S-CO$_2$) Brayton systems. The overall goal of the symposium is to review recent progress in the field and discuss future needs and priorities among the various attending organizations. This symposium follows a similar meeting held at the Massachusetts Institute of Technology in 2007.

The S-CO$_2$ Brayton system may provide competitive efficiencies with substantially smaller and less complex equipment than conventional plants. S-CO$_2$ Brayton systems offer performance and cost advantages in conventional power production and advanced nuclear reactor systems.

The symposium will review the status of overall development, including:

- System Concepts (both conventional and nuclear)
- System Modeling and Control
- Fundamentals of S-CO$_2$ Fluid Mechanics & Heat Transfer
- Materials Issues for S-CO$_2$ Systems
- Heat Exchanger Design
- Turbomachinery Design
- Electrical Generator Design
- Small Scale System Testing
- Large Scale Test Plans
- Integrated View of Development Priorities

The objectives of the meeting are to share the status of world developments, discuss feedback on development status and direction from participants, and obtain an integrated view of development priorities. The perspective gained will allow researchers to better coordinate work and allow the participants greater insight into overall direction of this technology.

**Synopsis**

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