



RCN-SEES: Predictive Modeling Network for Sustainable Human-Building Ecosystems (SHBE)

Call for Abstracts for Workshop on Physical Systems and Environment

This NSF-funded Research Coordination Network (RCN) in Science, Engineering and Education for Sustainability (SEES) announces its first workshop on one of its five themes: **Physical Systems & Environment**. Invited participants are requested to submit an abstract of about 500 words for engaging discussions and presentations describing how the network researchers should be collaborating in the following, but not limited to, aspects:

- Parametric modeling, BIM, and energy modeling
- Building equipment and systems for thermal and audio/visual comforts
- Cooling/heating/lighting/noise level control
- Energy consumption patterns influencing design and affected by microclimate
- Data validation and model interoperability problems
- Collaborating needs for inputs/outputs to/from other themes*
- Impact by climate change, water, resilience

Important Dates

RCN-SEES-SHBE Workshop (Invitation Only)
 Participants to Submit Abstract by
 Workshop RSVP Deadline

March 18-19
 February 18
 March 1

Submit your RSVP and/or Abstract via email:

To Dr. Tingzhen Ming at Tingzhen.Ming@unt.edu

Workshop Venue:

Holiday Inn Denton
 1434 Centre Place Dr.
 Denton, TX 76205
 940-383-4100 (Air Travel: DFW Int'l Airport)

March 18, 2014—Tuesday

Arrive-Holiday Inn Denton
 Afternoon Half Day Workshop
 Steering Committee Meeting

Host: UNT

Organizers:

Yong Tao, UNT
 Thomas Spiegelhalter, FIU
 Marilyns Nepomechie, FIU
 Wei Yan, TAMU
 Kuruvilla John, UNT
 Yiding Cao, FIU
 Stan Ingman, UNT
 Derrick D'Souza, UNT

March 19, 2014—Wednesday

All Day Workshop
 Including breakout sessions and
 Roundtable discussion and conclusion

For more information about RCN-SEES-SHBE, search **ASME.ORG RCN-SEES-SHBE**

Physical Systems & Environment (Theme I)

Building energy/water model (building monitoring data); Building envelope/materials model (BIM data); Indoor climate system/control (performance data); Livability (lighting and appliance data); Distributed power (solar, wind, CHP, biomass, etc. data); Passive features (daylight, green roof, solar chimney, shade, etc.); Outdoor microclimate models (local data).

*Theme II: Human Behaviors	Theme III: Social/Policy impacts	Theme IV: Life-Cycle Assessment & Business ecosystem	Theme V: Model Integration and Validation
-------------------------------	-------------------------------------	--	---



RCN-SEES: Predictive Modeling Network for Sustainable Human-Building Ecosystems (SHBE)

March 18-19, 2014

Holiday Inn Denton, Denton, TX

(Air Travel: DFW Int'l Airport)

Workshop on Theme I

Preliminary Agenda*

Tuesday, March 18, 2014

11:00 am to 12:00 pm	Registration
12:00 pm to 1:00 pm	Lunch
1:00 pm to 1:30 pm	Welcome and Overview
1:30 pm to 3:00 pm	Session I: Model type: Building energy/water model; Building envelope/materials model; Outdoor microclimate models.
3:00 pm to 3:15 pm	Coffee Break
3:15 pm to 5:00 pm	Session II: Model type I/O interface: Indoor climate system/control; Livability; Distributed power; Passive features. Data type: Building monitoring data; BIM data; Indoor performance data; Lighting and appliance data; Distributed power data; Passive features data; Outdoor local data.
5:00 pm to 6:00 pm	Open reception, networking and mixer.
7:00 pm	Dinner, Steering Committee Meeting (after dinner)

Wednesday, March 19, 2014

7:30 am to 8:00 am	Continental Breakfast
8:00 am to 8:30 am	Plenary session
8:30 am – 10:00 am	Breakout sessions
10:00 am to 10:30 am	Coffee Break
10:30 am to 12:00 pm	Breakout sessions
12:00 pm to 1:30 pm	Lunch
1:30 pm to 3:00 pm	Round table discussion
3:00 pm to 3:15 pm	Coffee Break
3:15 pm to 4:45 pm	Summary and Conclusion