

Minutes of IBPSA-USA Emerging Simulation Technology Research Subcommittee

Time: 1pm - 2pm PST 12/21/2017

Participants:

Sen Huang (PNNL) (co-chair)
Nathaniel Jones (MIT) (co-chair)
Mohamed Aly (AUC, RPI)
Demian Kuhlen (Guttman & Blaevoet)

Location: freeconferencecall

Notes:

Building Simulation 2017

The panel discussion proposed by the subcommittee on the topic “Build Your Own Building Simulation Tool” was presented at [Building Simulation 2017](#). On the panel were Andrew Heumann, Rhys Goldstein, Nathaniel Jones, Chris Mackey, Mostapha Sadeghipour Roudsari, and Jon Sargent. The panel discussion was well received with approximately 100 attendees. In the future, the subcommittee should endeavor to increase diversity of members and panelists.

Blog/Newsletter

The subcommittee brainstormed on a weekly/monthly updated blog/newsletter on new and emerging simulation tools. Each entry should contain one to two paragraphs describing 1) what the tool is and 2) personal experience with the tool, as well as 3) links to the tool and 4) an image. Opinions expressed should not claim to represent IBPSA, but content should link back to the IBPSA website. In developing content, priority should be given to new and emerging tools. Some tools mentioned as candidates for posts were: EnergyPro, Design-Builder, IES, Ladybug, Honeybee, OpenStudio, EnergyPlus, [OCUVIS](#), [SimScale](#), DIVA , UMI, Web-based AP, [Andrew Marsh web-based](#) software, and other tools listed in the [BEST Directory](#).

To investigate the ability to generate content for the blog, members in attendance were assigned topics:

- Nathaniel Jones: OCUVIS
- Demian Kuhlen: Andrew Marsh web-based software
- Mohamed Aly: OpenStudio
- Sen Huang: Modelica

Whitepaper

The subcommittee also discussed the literature review on the states of the art and practice with regard to emerging simulation technologies. The subcommittee will develop an outline for the literature review during next meeting to facilitate assignment of sections.

Actions:

- Nathaniel Jones will develop and circulate a structure for blog posts.
- Members in attendance will draft content for the assigned topics.
- Subcommittee members will suggest future events and webinars that the subcommittee may publicize or participate in.

Next meeting:

To be determined by poll.