2021 ANS Virtual Annual Meeting

I.A. Bolotnov and D. Shaver

A total of 40 summaries were submitted to the proposed sessions sponsored by the Thermal Hydraulics Division at the ANS 2021 Annual Meeting. The number was in line with the expectations in the virtual format during the COVID-19 pandemic. Our division submitted the session slate in time, meeting the deadline. We will host a total of 10 sessions (including 2 panels). All sessions will be hosted via Zoom meeting, at 2 pairs of sessions being hosted in parallel due to the high number of THD sessions and shortened meeting schedule. Note that each presentation is now 15 minutes + 5 minutes Q&A (5 minute shorter than in previous meetings). ANS representative will be moderating the sessions. Meeting registration is required to access the session link which will be available 30 minutes before the start of each session.

Below are two graphs showing submission trends for the ANS meetings.

![Annual Meeting Trend](chart1)

![Winter Meeting Trend](chart2)
Reconciled review recommendations for the summaries are as follows:

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Accept</td>
</tr>
<tr>
<td>33</td>
<td>Accept with Revision (A/R)</td>
</tr>
<tr>
<td>5</td>
<td>Reject Unless Revised (R/R)</td>
</tr>
<tr>
<td>1</td>
<td>Reject</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>40</strong></td>
</tr>
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</table>

We note that rejection rates (R/R+R) are steady in recent years at roughly 20% and this year this number is at 15%. We also encourage the authors to respect the process and time the reviewers dedicate to evaluate the summaries and thus to strictly follow the ANS template and submit summaries with all the required sections. After another round of rigorous review process for the revised R/R summaries, a total of 39 summaries are included in the ten THD summary sessions at this conference.

Overall, the review participation was sufficient. All the papers received adequate review on a timely basis. *Many thanks to our dedicated reviewers!* The distribution is as follows:

There were 136 review recommendations that needed to be coordinated from 37 reviewers. The average number of reviews per paper was ~3.4, which is slightly above average. We had about 25% of the reviewers participating in the process. The reviewers’ support is much appreciated, but we need to stimulate more participation to even out the effort between the program committee members.

Recent reviewer participations were as follows:

<table>
<thead>
<tr>
<th>Year</th>
<th>Location</th>
<th>Number of Reviews</th>
<th>Number of reviewers</th>
</tr>
</thead>
<tbody>
<tr>
<td>2021</td>
<td>Providence, R.I. (Online)</td>
<td>136</td>
<td>37</td>
</tr>
<tr>
<td>2020</td>
<td>Chicago (Online)</td>
<td>278</td>
<td>43</td>
</tr>
<tr>
<td>2020</td>
<td>Phoenix (Online)</td>
<td>85</td>
<td>21</td>
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<tr>
<td>2019</td>
<td>D.C.</td>
<td>258</td>
<td>40</td>
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<tr>
<td>2019</td>
<td>Minneapolis</td>
<td>127</td>
<td>24</td>
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<tr>
<td>2018</td>
<td>Orlando</td>
<td>No general sessions (ATH only)</td>
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<tr>
<td>2018</td>
<td>Philadelphia</td>
<td>188</td>
<td>32</td>
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<tr>
<td>2017</td>
<td>D.C.</td>
<td>222</td>
<td>28</td>
</tr>
<tr>
<td>2017</td>
<td>San Francisco</td>
<td>264</td>
<td>39</td>
</tr>
<tr>
<td>2016</td>
<td>Las Vegas</td>
<td>337</td>
<td>45</td>
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<tr>
<td>2016</td>
<td>New Orleans</td>
<td>87</td>
<td>20</td>
</tr>
<tr>
<td>2015</td>
<td>San Antonio</td>
<td>135</td>
<td>28</td>
</tr>
<tr>
<td>2015</td>
<td>Anaheim</td>
<td>212</td>
<td>33</td>
</tr>
<tr>
<td>2014</td>
<td>Reno</td>
<td>80</td>
<td>17</td>
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<tr>
<td>2014</td>
<td>D.C.</td>
<td>284</td>
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<tr>
<td>2013</td>
<td>Atlanta</td>
<td>137</td>
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<td>2013</td>
<td>San Diego</td>
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<tr>
<td>2012</td>
<td>Chicago</td>
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<td>2012</td>
<td>D.C.</td>
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<tr>
<td>2011</td>
<td>Hollywood</td>
<td>148</td>
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<tr>
<td>2011</td>
<td>Las Vegas</td>
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<tr>
<td>2010</td>
<td>San Diego</td>
<td>102</td>
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<td>2009</td>
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<tr>
<td>2009</td>
<td>Reno</td>
<td>73</td>
<td>11</td>
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<tr>
<td>2008</td>
<td>Anaheim</td>
<td>89</td>
<td>19</td>
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The review process was made possible by valuable contributions from:

<table>
<thead>
<tr>
<th>Name</th>
<th>Score</th>
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<tbody>
<tr>
<td>Martin, Robert</td>
<td>10</td>
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<td>Riznic, Jovica</td>
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<td>Carasik, Lane</td>
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<td>Bolotnov, Igor</td>
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<td>Lisowski, Darius</td>
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<td>Sun, Xiaodong</td>
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<td>Yoon, Su-Jong</td>
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<td>Wang, Jun</td>
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<td>Cho, Hyoung Kyu</td>
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<td>Guanyi, Wang</td>
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<td>Jin, Yue</td>
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<td>Zhang, Sheng</td>
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<td>Cheng, Xu</td>
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<td>Kim, Seung Jun</td>
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<td>Roelofs, Ferry</td>
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<td>Cheung, Fan-Bill</td>
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<td>Hua, Thanh</td>
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<td>Petrov, Victor</td>
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<td>Shaver, Dillon</td>
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<td>Wiggins, Cody</td>
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<td>Zimmer, Matthew</td>
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<td>Addad, Yacine</td>
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<td>Brooks, Caleb</td>
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<td>Chen, Minghui</td>
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<td>Howard, Trevor</td>
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<td>Fang, Jun</td>
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<td>Feng, Jinyong</td>
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<td>Kong, Ran</td>
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<td>LaBrier, Daniel</td>
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<td>Liu, Qingqing</td>
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<td>Shi, Shanbin</td>
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<td>Sharma, Subash</td>
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<td>Ali, Amir</td>
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<td>Kimber, Mark</td>
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<td>Ibarra, Lander</td>
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<td>Lin, Ching-Sheng</td>
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<td>Marcum, Wade</td>
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<td>Total:</td>
<td>136</td>
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</table>

THD has a total of ten (10) sessions including 2 panels.

While ANS system lists Chair and Alt. Chair positions, THD considers both as Co-Chairs and kindly requests to share the Session Chair responsibilities during the session.

<table>
<thead>
<tr>
<th>Session</th>
<th># of papers</th>
<th>Time Slot (ET)</th>
<th>Chair</th>
<th>Alt. Chair</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computational Thermal Hydraulics – I</td>
<td>5</td>
<td>Monday 1pm</td>
<td>Maria N. Avramova</td>
<td>Mihai Diaconeasa</td>
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<tr>
<td>General Thermal Hydraulics and Heat Transfer Fundamentals</td>
<td>5</td>
<td>Monday 3:15pm</td>
<td>Jun Wang</td>
<td>Subash L. Sharma</td>
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<tr>
<td>Challenges and Opportunities in Thermal Hydraulics of Load-Following Nuclear Systems [P]</td>
<td>0</td>
<td>Tuesday Noon 2:15pm</td>
<td>W. David Pointer</td>
<td>Igor A. Bolotnov</td>
</tr>
<tr>
<td>Thermal Hydraulics Research in ARPA-E Programs [P]</td>
<td>0</td>
<td>Tuesday Noon</td>
<td>Ling Zou</td>
<td>Kevin R. Robb</td>
</tr>
<tr>
<td>Thermal Hydraulic R&amp;D Activities in Printed-Circuit Steam Generators for Advanced Nuclear Reactors</td>
<td>6</td>
<td>Tuesday 4:30pm</td>
<td>Sang J. Kim</td>
<td>Xiaodong Sun</td>
</tr>
<tr>
<td>Thermal Hydraulics Research in VTR and TCR Programs</td>
<td>5</td>
<td>Tuesday 4:30pm</td>
<td>Wade R. Marcum</td>
<td>Lander Ibarra</td>
</tr>
<tr>
<td>Thermal Hydraulics for Advanced Reactors</td>
<td>5</td>
<td>Wednesday Noon 2:15pm</td>
<td>Robert P. Martin</td>
<td>Dillon R. Shaver</td>
</tr>
<tr>
<td>Computational Thermal Hydraulics - II</td>
<td>5</td>
<td>Wednesday 2:15pm</td>
<td>Jinyong Feng</td>
<td>Darius D. Lisowski</td>
</tr>
<tr>
<td>Experimental Thermal Hydraulics</td>
<td>5</td>
<td>Wednesday 4:30pm</td>
<td>Shanbin Shi</td>
<td>Victor Petrov</td>
</tr>
<tr>
<td>Computational Thermal Hydraulics - III</td>
<td>3</td>
<td>Wednesday 4:30pm</td>
<td>Elia Merzari</td>
<td>Guillaume P. Mignot</td>
</tr>
</tbody>
</table>

Total number of papers: 39
**Additional Notes:**

- All paper presentations are **20 minutes each** (15-minute talk + 5-minute Q&A and transition to the next speaker).
- **ANS recommends to use the following script before the first talk of the session:**

  Welcome & thank you for joining the [session title] session. I am [name], the chair for this session. There are a few items that I want to discuss with all of you before we begin.

  First, all our meeting sessions will be recorded and posted on the ANS Meeting Portal. The recordings will be available only to registered meeting attendees. Please follow the ANS behavior and ethics policies. Both are listed on the resources page of the meeting portal.

  Second, please keep your microphone muted at all times unless you are speaking. During the Q&A session, please use the “participants” menu—the button is at the bottom of the screen next to the green share screen button—to “raise your hand,” which is at the bottom of the participant window. Once the session chair calls on you, you may unmute and ask your question. You may also use the chat function to type your question.

  Thank you for participating and enjoy the session.