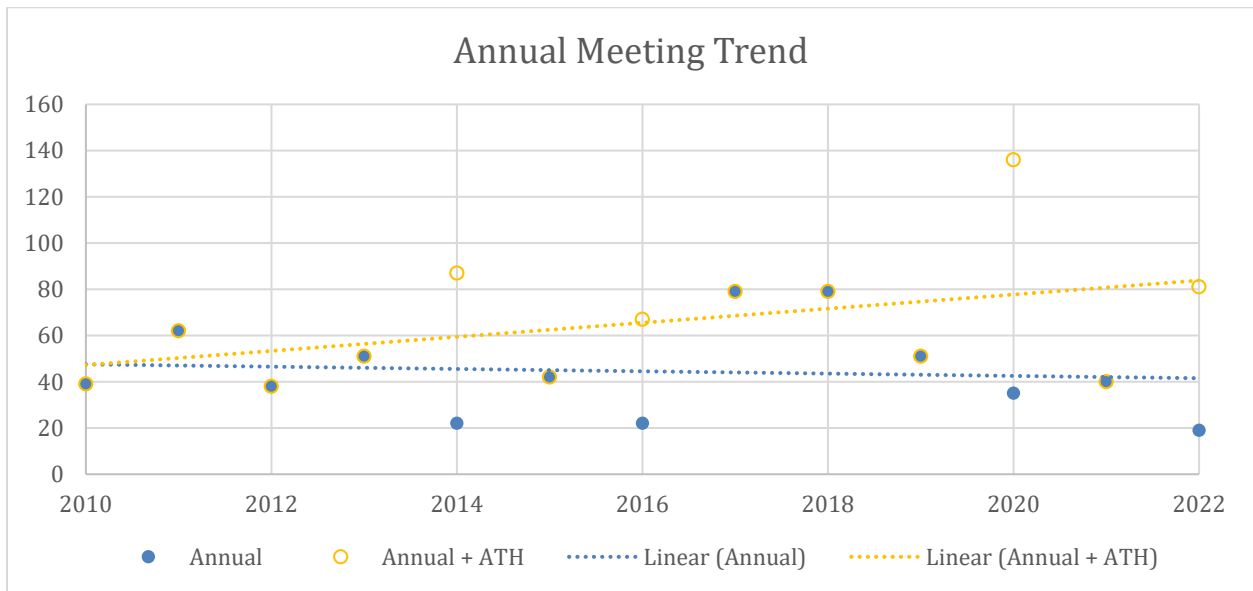


2022 ANS Annual Meeting

I.A. Bolotnov and D. Shaver

A total of 81 submissions are included in the sessions sponsored by the Thermal Hydraulics Division at the ANS 2022 Annual Meeting. This includes the 53 full papers accepted to ATH, the 19 summaries included as part of the annual meeting, and 9 YPTHRC entries. The number was in line with the expectations for an annual meeting and, the outlier for the 2020 ATH meeting in Orlando notwithstanding, also in line with expectations for an ATH meeting. We will host a total of 27 sessions, including: 3 panels, 2 TAA lectures, 2 keynotes, and the opening plenary. Note that the standard presentations are now 15 minutes + 5 minutes Q&A (5 minute shorter than in previous years' meetings). The graph below shows the trends for the ANS Annual meetings.



Reconciled review recommendations for the submissions are as follows:

	81	Accept
	11	Reject
Total	92	

After our rigorous review process, 11 submissions out of 92 received were rejected. We note that the trend for rejection rates ($R/R+R$) is usually at roughly 20% and this year this somewhat lower, at 12%. As a note, we 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.

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 217 review recommendations that were coordinated from 54 reviewers. The average number of reviews per paper was ~ 2.4 , which is about average. We had about 35% of the reviewers participating in the process, a notable increase from the Winter Meeting. The reviewers'

support is much appreciated! We need to continue to stimulate more participation to even out the effort between the program committee members.

Recent reviewer participations were as follows:

Year	Location	Number of Reviews	Number of reviewers
2022	Anaheim (inc. ATH)	217	54
2021	D.C.(Hybrid)	164	38
2021	Providence, R.I. (Online)	136	37
2020	Chicago (Online)	278	43
2020	Phoenix (Online)	85	21
2019	D.C.	258	40
2019	Minneapolis	127	24
2018	Orlando	No general sessions (ATH only)	
2018	Philadelphia	188	32
2017	D.C.	222	28
2017	San Francisco	264	39
2016	Las Vegas	337	45
2016	New Orleans	87	20
2015	San Antonio	135	28
2015	Anaheim	212	33
2014	Reno	80	17
2014	D.C.	284	29
2013	Atlanta	137	23
2013	San Diego	129	22
2012	Chicago	116	17
2012	D.C.	179	22

The review process was made possible by valuable contributions from:

Vivek Rao	16	Nithin Panicker	4	Yixiang Liao	2
W. David Pointer	15	Nadish Saini	4	Minghui Chen	2
Trevor Kent Howard	12	Guanyi Wang	3	Adam Burak	2
SuJong Yoon	12	Xu Cheng	3	Muhammad Yousaf	2
Lane B. Carasik	11	Jun Wang	3	Wesley C. Williams	1
Xiaodong Sun	10	Nolan Goth	3	Hitesh Bindra	1
Xiaojing Liu	10	Qiuping Lv	3	Chengqi Wang	1
Bao-Wen Yang	9	Subash L. Sharma	3	Dezhi Dai	1
Duy-Thien Nguyen	9	Robert K. Salko	2	Elia Merzari	1
Chul-Hwa Song	7	Landon Brockmeyer	2	Vineet Kumar	1
Jun Liao	7	Yue Jin	2	Ralph S. Wiser	1
Wei Ding	6	Emilian Popov	2	Fan-Bill Cheung	1
Dillon R. Shaver	5	Donna P. Guillen	2	Seung Jun Kim	1
Thomas Hohne	4	Jun Fang	2	Franklin Guthrie Curtis	1
Jinyong Feng	4	Yiqi Yu	2	Musa A. Moussaoui	1
Jovica R. Riznic	4	Justin Weinmeister	2	Wade R. Marcum	1
Igor A. Bolotnov	4	Qingqing Liu	2	Naveen Pillai	1
Sheng Zhang	4	Kyung Mo Kim	2	Michael Patrick Riley	1

The technical session schedule, including panels is as follows:

Session	Chairs	# of papers	Time Slot (PDT)
Thermal Hydraulics Needs, Challenges and Opportunities in the ARDP	D. Shaver, L. Ibarra	panel	Monday 3:15pm
TH of Research and Test Reactors	W. Marcum, J. Fang	5	
Optimization of Fluid-Surface Interface Heat Transfer and Interactions	L. Carasik, V. Rao	5	
Artificial Intelligence in Thermal Hydraulics	N. Saini, Y. Jin	4	Tuesday 10:15am
Microreactor Thermal Hydraulics	E. Popov, R. Martin	3	
NEAMS TH IRP: Thermal-Fluids Applications in Nuclear Energy: I	I. Bolotnov, A. Iskhakov	4	
In Memorium: James Sienicki	P. Sabharwall, D. Pointer	panel	Tuesday 1:00pm
NEAMS TH IRP: Thermal-Fluids Applications in Nuclear Energy: II	E. Baglietto, D. Shaver	4	
Young Professional Thermal-Hydraulic Research Competition: I	M. Zimmer, X. Wu	5	
NEAMS TH IRP: Thermal-Fluids Applications in Nuclear Energy: III	E. Merzari, Y. Hassan	5	Tuesday 3:15pm
Sodium-Cooled Fast Reactor TH	Y. Hassan, L. Brockmeyer	5	
Young Professional Thermal-Hydraulic Research Competition: II	X. Wu, M. Zimmer	4	
TH of LWR Operations and Safety	B. W. Yang, J. Liao	4	Wednesday 10:15am
Molten-Salt Reactor Thermal Hydraulics: I	M. Chen, Q. Lv	5	
Two-Phase and Boiling Flows: Experiment, Modeling and Simulation: I	I. Bolotnov, T. Hohne	5	
Natural Convection	S. Sharma, N. Panicker	3	Wednesday 1:00pm
Molten-Salt Reactor Thermal Hydraulics: II	N. Goth, S. Zhang	4	
Modeling Combustion and Fires	J. Duarte, K. M. Kim	2	

Two-Phase and Boiling Flows: Experiment, Modeling and Simulation: II	S. Yoon, W. Ding	5	Wednesday 3:15pm
Machine Learning for Reactor TH: Progresses, Challenges, and Opportunities	X. Zhao, Y. Liu	panel	
Small Modular Reactor Thermal Hydraulics	J. Wang, G. Wang	2	
Gas-Cooled Reactor Thermal Hydraulics	Y. Yu, N. Goth	4	
Multiphysics-Coupled Thermal-Hydraulic Analysis Methods	T. Howard, R. Salko	3	

Additional Notes:

- All paper presentations are **20 minutes each** (15-minute talk + 5-minute Q&A and transition to the next speaker).
- If you are chairing a session, coordinate with your cochair prior to the start on which speakers each will introduce and collect a brief bio for each speaker for their introduction.