MEETING MINUTES

American Nuclear Society – Thermal Hydraulics Division
Program Committee Meeting
3 PM – 5 PM US Eastern Time, Sunday, June 7, 2020
Zoom: https://us02web.zoom.us/j/89467372698

Attendees (Appendix A): Igor Bolotnov (Chair), Dillon Shaver (Assistant Chair), Elia Merzari (Secretary), Xiaodong Sun, Karen Vierow Kirkland, Shanbin Shi, Ferry Roelofs, Marilyn Delgado, Chip Martin, Wade Marcum, Fan-Bill Cheung, Maria Avramova, Minghui Chen, Jinyong Feng, Matt Zimmer, Karl Britsch, Jun Wang, Zeyun Wu, Bob Martin, Bao-Wen Yang, Cody Wiggins, Daniel Labrier, Steve Arndt, Jun Liao, Subash Sharma, Xu Cheng, Annalisa Manera, Philippe Planquart, Yang Liu, David Pointer, Kevin Robb, Seungjin Kim, Ling Zou, Yassin Hassan, Katrien Van Tichelen, Prashant Jain, Guanyi Wang, Caleb Brooks, Lane Carasik, Briand Woods, Jong Kim

1. **Opening** (Bolotnov)

2. **Approval of Meeting Agenda** (All)

MOTION to approve (Pointer), SECOND by Marcum.
No discussion.
Approved unanimously.

3. **Approval of Minutes** from 2019 Winter Meeting (All).

MOTION to approve (Marcum). SECOND by Pointer,.
No discussion.
Motion approved unanimously.

4. **Update on THD Sessions for the ANS 2020 Winter Meeting** (Bolotnov)
    a. General Meeting: Submittal Statistics, Reviews, and Session Assignments

See Appendix B for a detailed report of the THD sessions at the ANS virtual annual meeting.

Discussions about sessions. Dr. Bolotnov went through the sessions and noted that it is important for session organizers to contact all speakers. Dr. Marcum noted some troublesome trends of speakers being unresponsive. Dr. Bolotnov asked all session chairs to keep track of all speakers that are no-shows and send e-mail to Dr. Shaver.

Dr. Bolotnov asked to all speakers and session chair to provide feedback regarding the virtual meeting format. In particular Webinar vs. Zoom meetings. Zoom meetings have been favored by THD because we favor interaction between speakers and audience. Send e-mail to Dr. Bolotnov.

The zoom links will be available 30 min before start time. A staff producer is assigned for each session (Janice Lindegard). Additionally there is a hot line.

It was noted that presentations will be available only to session chairs.

5. **Update on THD Program for the Upcoming 2020 Winter Meeting** in Chicago, IL (Bolotnov/Merzari)

a. General meeting: Announced Sessions, Deadlines/Submittal Status

Hard deadline for review July 20th. See detailed report (Appendix C). The meeting is currently scheduled to be in person, but the situation may evolve. Chip Martin mentioned that a decision will be made by September.

6. **Planning for the Future 2021 Annual Meeting** in Providence, RI (Bolotnov/Shaver)

Sessions:

- Two-phase flow and heat transfer fundamentals (Subash Sharma and Caleb Brooks)
- Computational thermal-hydraulics (Maria Avramova and Jinyong Feng)
- General thermal-hydraulics (Guillame Mignot and Jun Wang)
- Experimental thermal-hydraulics (Shanbin Shi and Annalisa Manera)
- Thermal-hydraulics issues related to load-following (Dave Pointer + TBD) - Panel
- Thermal-hydraulics research in ARPA-E programs (Ling Zou and Kevin Robb and Jun Liao) – Panel
- Machine Learning for nuclear thermal-hydraulics (Elia Merzari and Annalisa Manera)
- Thermal-hydraulics for advanced reactors (Bob Martin and Dillon Shaver)
- Thermal-hydraulics research in VTR (Xiaodong Sun and Yassin Hassan and Wade Marcum)
- Thermal-hydraulics research in TCR (Prashant Jain and Casey Jesse (INL))

7. **Planning for ATH'22 Embedded Topical in 2022 ANS Annual in Anaheim, CA** (Song/Sun)

It was noted that the meeting was approved by NPC (One-stop approval).

8. Journal Special issues

a. NURETH-18 (Marcum)

The special issues are ongoing, with a target completion date of December 2020.
NT. - 14 papers submitted, 12 accepted
NSE - 15 papers submitted and accepted. 2 accepted as technical notes
NED - 11 papers submitted, 9 still under review

9. **ICAPP'20 Update** (Sun)

Cancelled and postponed to Spring 2021. ICAPP'22 will be host in Korea (Seoul). It was noted that all ICAPPs will shift by a year.

10. **ATH'20 Update** (Bolotnov)

Moved to October 2020. However at the time of the meeting it remained unclear if it will be in person.

11. **NUTHOS-13 Update** (Luxat/Sun)

Cancelled. NUTHOS-13 now in Taiwan in 2022. Some paper moved to ATH'20 other invited to NURETH.

Prof. Sun presented on the status of NUTHOS-13 in Taiwan. (slides in Appendix D). The meeting was approved as a Class IV meeting by NPC.

A Note from Dr. Ninokata was also provided as input to the committee:

> "Main purpose of this email is to supplement the NPC presentation slides provided by Prof Min Lee of CHNS, Taiwan on the current preparation status. Please note that this is a very informal or private note and the content is known to some of my colleagues but should be shared with those who are interested in the NUTHOS series.
>
> Before the coronavirus epidemic erupted, NUTHOS-13 was originally planned to be held in 2020 in Vancouver, Canada* and accordingly NUTHOS-14 was scheduled in 2022 in Taiwan. However, due to the epidemic, NUTHOS in Vancouver has been postponed (I say "postponed" instead of "cancelled" because postponed was more appropriate).
>
> Then, because the next NUTHOS conference was already set in place in Taiwan, it was agreed to move NURETH-13 to be held in Taichung, Taiwan in 2022 at the courtesy of Canadian Nuclear Society. So NUTHOS-13 to be held 2020 was actually not cancelled but postponed to 2024 as NUTHOS-14 to be held in Vancouver under leadership of Profs. D. Novog and J. Luxat.
>
> * NUTHOS was originally as **International Nuclear Power Plant Thermal Hydraulics and Operations** starting in Taipei, Taiwan 1984. It was given the birth and organized in principle by MIT NE student volunteers under the supervise of Prof. N.E. Todreas, being aimed at providing more opportunities for young professionals in the Eastern Asian countries to participate in the nuclear thermal hydraulics conferences of high quality. Thus the NUTHOS series have been hosted by Taiwan, Japan, Korea and China on rotation these years and attended by world TH experts, especially by those from Europe and USA. Time has changed since 1984. After the Fukushima Daiichi NPS accident 2011, we have come to consider changing NUTHOS charters so that the Pacific Coast regions of North America should be an important constituent of the NUTHOS organizing countries/regions. As a result of discussions 2018 in THD, Prof. John Luxat has accepted the invitation to host NUTHOS-13 in Vancouver 2020 as ANS Class IV meeting (approved October 2018) and the first NUTHOS outside the east Asian region was going to take place in coming August 2020 until quite recently.
>
> FYI, a schedule for NUTHOS series in coming 10 years (tentative) would be ---
> 2022 NUHTOS-13 Taichung, Taiwan
> 2024 NUTHOS-14 Vancouver, Canada
> 2026 NUTHOS-15 Japan
> 2028 NUTHOS-16 Korea
> 2030 NUTHOS-17 China
> 2032 NUTHOS-18 USA (North America)?
>
> Hisashi Ninokata"

12. **NURETH-19 Update** (Luxat/Merzari)

An update concerning NURETH-19 was provided. The Presentation is attached in Appendix E.

13. **Old Business** (All)
    a. PC membership nomination: (Bolotnov)

Dr. Bolotnov and Dr. Pointer discussed nominations for the PC and the proposed slate agreed upon by the nominating committee.

It was noted that, per THD Rule 9.2.b.3: "For elected Executive Committee members, the terms of membership to the Program Committee will coincide with the terms of membership to the Executive Committee plus one year." The list of members should be updated on the website to include all EC members per bylaw.

14. **New Business** (All)

Lane Carasik: YMG and student section committee are trying to put together a webinar series (ANS TechTalks).

> "Hi all,
>
> Kelsey Amundson (ANS YMG Secretary, cc'd) and I are putting together a webinar series called "ANS Tech Talks" and would like your help. The series is designed to become an archived library of webinars for reference by ANS members and cover a variety of relevant technical topics. Topics could include technical material lectures, how to effectively use computational tools, or demonstrations of how to use experimental equipment.
>
> We would greatly appreciate help from each division in identifying topics to be covered in the series that would be of use to your members, as well as volunteers to host the webinars. If you have any questions, or would like to make a suggestion, please do not hesitate to contact either of us.
>
> Thanks,
> Amanda Bachmann
> ANS SSC Co-Vice Chair"

Dr. Merzari suggested to have the PC chair collect idea from members. Mr. Roelofs suggested that a good option could be to record keynotes.

MOTION to adjourn.

ATTACHMENT A

List of attendees for roll call.

LIST OF ATTENDEES

American Nuclear Society – Thermal Hydraulics Division
Program Committee Meeting
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Chairs

Name	Organization	Mark as present
Igor Bolotnov (Chair)	NCSU	Present
Dillon Shaver (Assistant Chair)	ANL	Present
Elia Merzari (Secretary)	PSU	Present

Other attendees

Name	Organization	Email	Member? (Y/N)
Xiaodong Sun	UM		
Karen Vierow Kirkland	TAMU		
Shanbin Shi	RPI		
Ferry Roelofs	NRG		
Marilyn Delgado	TAMU		
Chip Martin			
Wade Marcum	OSU		
Fan-Bill Chaung	PSU		
Maria Avramova	NCSU		
Minghui Chen			
Jinyong Feng	MIT		
Matt Zimmer	KAPL		
Karl Britsch			
Jun Wang	UW		
Zeyun Wu			

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Name	Organization	Email
Bob Martin	BWXT	
Bao-Wen Yang	Delta	
Cody Wiggins		
Daniel Labrier		
Steve Arndt	NRC	
Jun Liao	WEC	
Subash Sharma		
Xu Cheng	KIT	
Annalisa Manera	UM	
Philippe Planquart	VKI	
Yang Liu	VirginiaTech	
David Pointer	ORNL	
Kevin Robb	ORNL	
Seungjin Kim	Purdue	
Ling Zou	ANL	
Yassin Hassan	TAMU	
Katrien Van Tichelen	SCK	
Prashant Jain		

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Name	Organization	Email
Guanyi Wang		
Caleb Brooks		
Lane Carasik		
Briand Woods		
Jong Kim		

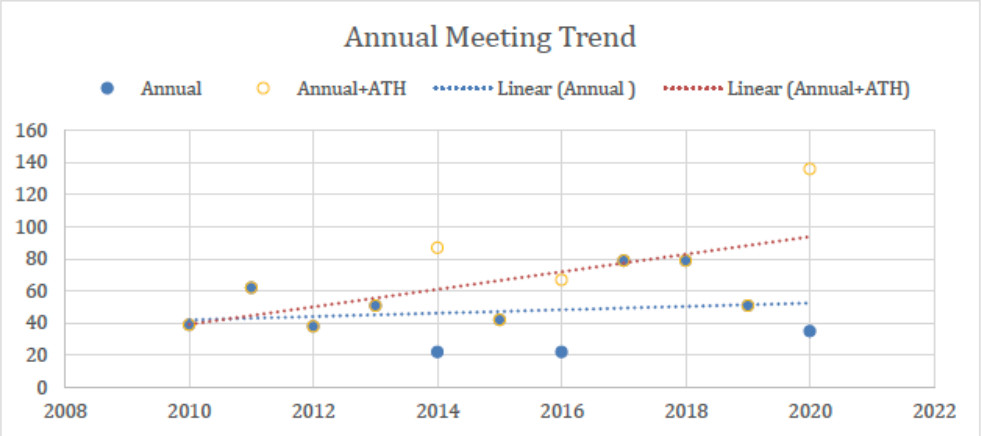
ATTACHMENT B

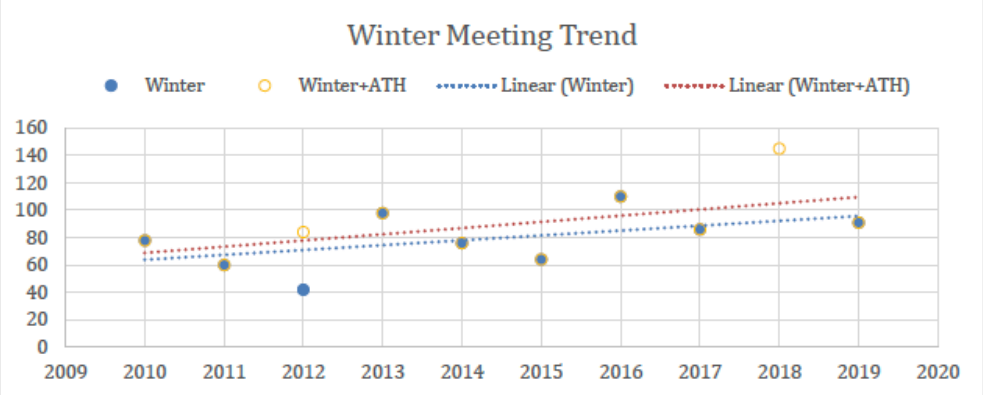
2020 ANS Annual Meeting, Online (scheduled in Phoenix, AZ)

I.A. Bolotnov and D. Shaver

A total of 35 summaries were submitted to the proposed sessions sponsored by the Thermal Hydraulics Division at the ANS 2020 Annual Meeting. The number was in line with the expectations due to planned ATH'20 meeting in Paris (planned for March, postponed till October). Our division submitted the session slate in time, meeting the deadline. We will host a total of 9 sessions (including 1 panel). All sessions will be hosted via Zoom meeting, only 1 overlap in the schedule. ANS representative will be moderating the sessions. Meeting registration is required to access the session link.

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





Reconciled review recommendations for the summaries are as follows:

	1	Accept
	26	Accept with Revision (A/R)
	7	Reject Unless Revised (R/R)
	1	Reject
Total	35	

We note that rejection rates (R/R+R) are steady in recent years at roughly 20%. 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 (and not one paragraph abstracts which was the reason for the most rejected papers). After another round of rigorous review process for the revised R/R summaries, a total of 30 summaries are included in the nine THD summary sessions at this conference. Note that 2 panels were either cancelled or postponed due to switch to Virtual Meeting environment.

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 85 review recommendations that needed to be coordinated from 21 reviewers. The average number of reviews per paper was ~2.43, about average. We had about 15% of the reviewers participating in the process. The reviewers' support is much appreciated, but we need to stimulate more participation.

Recent reviewer participations were as follows:

Year	Location	Number of Reviews	Number of reviewers
2020	Phoenix (Online only)	85	21
2019	D.C.	258	40
2019	Minneapolis	127	24
2018	Orlando	No general sessions	
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
2011	Hollywood	148	14
2011	Las Vegas	148	20
2010	San Deigo	102	21
2010	D.C.	135	22
2009	Atlanta	191	25
2009	Reno	73	11
2008	Anaheim	89	19

The review process was made possible by valuable contributions from:

Wang, Jun	12
Bolotnov, Igor	9
Yoon, Su-Jong	6
Zimmer, Matthew	6
Fang, Jun	6
Shaver, Dillon	6
Zou, Ling	5
Martin, Robert	5
Sun, Xiaodong	5
Chen, Minghui	3
Feng, Jinyong	3
Kim, Seung Jun	3

Li, Mengnan	3
Yang, Bao Wen	3
Brooks, Caleb	2
Cheung, Fan-Bill	2
Roelofs, Ferry	2
Carasik, Lane	1
Ibarra, Lander	1
Lomperski, Stephen	1
Sharma, Subash	1
Total:	85

THD has a total of nine (9) sessions including 1 panel.

Session	# of papers	Time Slot (ET)	Location	Chair	Chair
Experimental Thermal Hydraulics - I	3	Mon 1pm		Marilyn Delgado	Guillaume Mignot
Two-Phase Flow and Heat Transfer Fundamentals	2	Mon 3:30pm		Seugnjin Kim	Matthew Zimmer
General Thermal Hydraulics	4	Mon 3:30 pm		Wade Marcum	Seung Jun Kim
Computational Thermal Hydraulics - I	4	Tue Noon		Elia Merzari	
Thermal Hydraulics Activities for the Versatile Test Reactor	2	Tue 2:30pm		Xiaodong Sun	
Challenges and Opportunities in Thermal Hydraulics of High Temperature Gas Cooled Reactors (P)		Wed Noon		W. David Pointer	Brian Woods
Thermal Hydraulics of Nuclear Micro-Reactors and MSR	3	Wed 2:30pm		Subhash Sharma	
Computational Thermal Hydraulics - II	5	Wed 4:35pm		Prashant Jain	
Experimental Thermal Hydraulics – II	2	Thu 10am		Jun Wang	Su-Jong Yoon
Total	**30**				

Additional Notes:

- All paper presentations are 25 minutes each.

ATTACHMENT B

Report for Winter Meeting 2020

2020 Winter Meeting and Nuclear Technology Expo

Chicago, IL, Chicago Marriott Downtown
November 15-19, 2020

Submit papers at: http://epsr.ans.org/submission/?m=308

Deadline: July 1, 2020

9 sessions and 4 panels

Review deadline July 20th, 2020 – please plan to contribute!

THD Sessions and organizers:

- Two-phase flow and heat transfer fundamentals
  - Caleb Brooks / Subash Sharma
- Computational Thermal Hydraulics
  - Donna Guillen / Kurshad Muftuoglu
- General Thermal hydraulics
  - Xiaodong Sun / Brian Woods
- Experimental Thermal Hydraulics
  - Fan-Bill Cheung / Bao Wen Yang
- 40 years of NURETH: How is NURETH impacting nuclear research
  - Marilyn Delgado / Elia Merzari
- Severe Accident Modeling
  - Adrian Tentner / Guillaume Mignot
- Molten Salt Thermal-Hydraulics
  - Kevin Robb / Dillon Shaver
- Multiphysics Simulation
  - Jun Wang / John Luxat
- Education in Thermal Hydraulics – Part II [P]
  - Lane Carasik / Wade Marcum
- Options in Small-Modular Reactors [P]
  - John Luxat / Seungjin Kim
- 40 years of NURETH: Highlights [P]
  - Robert Martin / Elia Merzari
- Thermal Performance for Integrated Energy Systems: Design, Development and Deployment [P]
  - Piyush Sabharwall / Scott Greenwood
- Young Professional Thermal-hydraulic Research competition
  - Matthew Zimmer/ Ling Zou

ATTACHMENT D

Slides with details about NUTHOS-13 are attached after this page.

Conference Planning

NUTHOS-13
2022

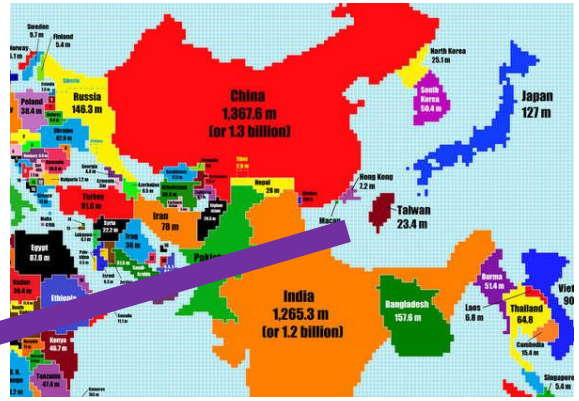
13th International Topical Meeting on
Nuclear Reactor Thermal-Hydraulics,
Operation and Safety

September 5- 9, 2022
Taichung, Taiwan

NUTHOS-13, Taichung *September 5th~9th, 2022*

International Topical Meeting on Nuclear Reactor Thermal Hydraulics, Operation and Safety (NUTHOS)

Taipei (1984)	Tokyo (1986)	Seoul (1988)
Taipei (1994)	Beijing (1997)	Nara (2004)
Seoul (2008)	Shanghai (2010)	***Kaohsiung (2012)***
Okinawa (2014)	Gyeongju (2016)	Qingdao (2018)



TAIWAN

Destination	Transportation	Time (mins)
Taoyuan Airport → Taichung HSR Station	Taiwan HSR	36
Taichung HSR Station → Bus Station	Bus	11
Bus Station → Host Hotel	Walk	10

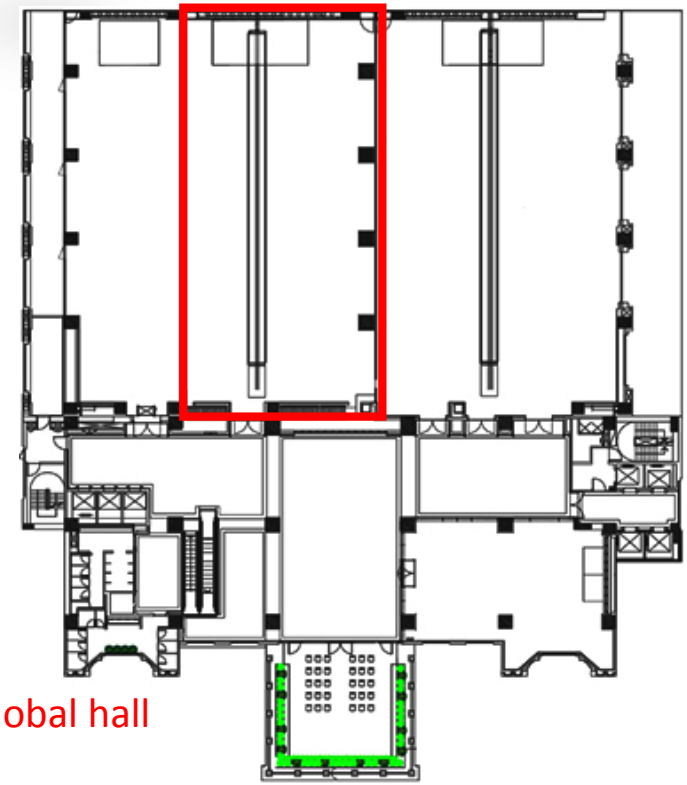
Venue: The Lin Hotel Taichung

304 Guest Rooms

10 Minutes walking distance to:

The Taichung Metropolitan Opera House, designed by Pritzker Prize-winning Japanese architect Toyo Ito.
The theater offers world-class performance stages and facilities.

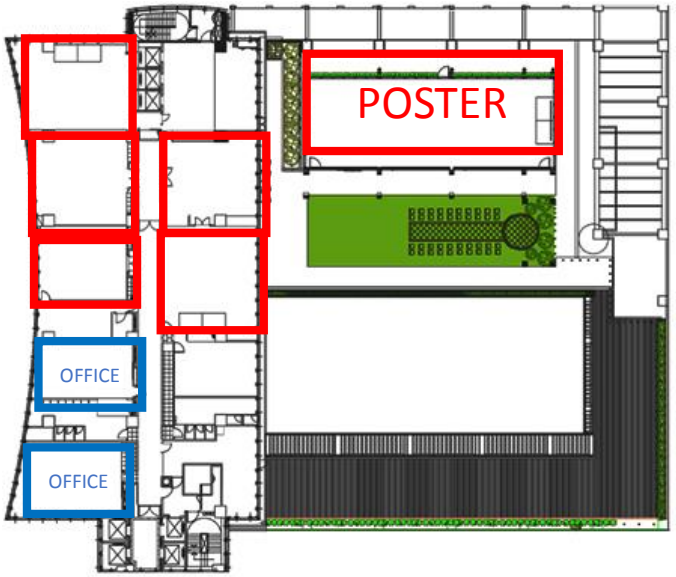
NUTHOS-13, Taichung September 5th~9th, 2022



Global hall

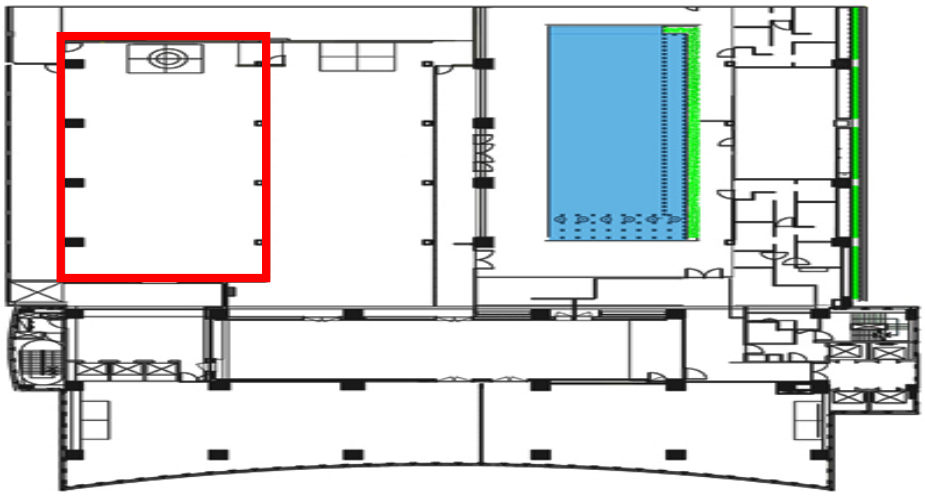
3F Opening and Banquet

7F Parallel meeting



Exhibition Hall

6F



NUTHOS-13, Taichung *September 5th~9th, 2022*

Host Sponsor:

Chung Hua Nuclear Society

Co-Sponsors:

Canadian Nuclear Society

Korean Nuclear Society

Atomic Energy Society of Japan*

Chinese Nuclear Society*

Hong Kong Nuclear Society*

* Waiting for Confirmation

Honorary Chairs

Prof. John C. Luxat,

Department of Engineering Physics, McMaster University

Prof. Hisashi Ninokata,

Dipartimento di Energia, Politecnico di Milano

Professor Emeritus, Tokyo Institute of Technology

Prof. Jong Hyun Kim,

Department of Nuclear and Quantum Engineering,

Korea Advance Institute of Science and Technology

General Chair

Prof. Min Lee,
President of Chun Hua Nuclear Society

Dean of Nuclear Science College,
National Tsing Hua University

General Co-Chairs

Prof. Fan-Bill Cheung
Department of Mechanical Engineering,
Penn State University

Prof. Yassin Hassin
Department of Nuclear Engineering
Texas A&M University

Prof. Bao Wen Yang
Institute for Advanced Research in Multiphase Flow and Energy Transfer, Delta Energy Group, Qingdao

Technical Program Committee Chair

Prof. Chin Pan

Chair Professor and Head of Mechanical Engineering Department, City University of Hong Kong,

Professor Emeritus, Department of Engineering and System Science, National Tsing Hua University

International Steering Committee Chair

Dr. Jason Chao

Editor Nuclear Engineering and Design

Local Committee Chair

Prof. Yu-Ming Ferng

Department of Engineering and System Science, National Tsing Hua University

NUTHOS-13, Taichung *September 5th~9th, 2022*

The major theme of the conferences will be ***"Advancing Sustainable Development of Nuclear Energy".***

The conference covers all the current thermal-hydraulic areas in nuclear research and development, as well as plant operational safety, maintenance, diagnostics and monitoring. Attendees will be able to report on challenges impacting the nuclear industry and share lessons learned from reviews, drills, and major exercises.

Technology Tracks

1. Fundamental Thermal-Hydraulics
2. Computational Thermal-Hydraulics and CFD Method
3. Experimental Thermal-Hydraulics
4. Safety and Severe Accidents
5. Thermal-Hydraulics and Safety of Advanced Reactors
6. Plant Operation and Maintenance
7. Plant Diagnostics and Monitoring
8. Small Module Reactors and Micro Reactors
9. Special Sessions-New Challenges from the Rise of Renewable Energy
10. Special Topics
11. Panel Sessions and Key Note lectures

Two Technical Tours

Mingtan Pumping Storage Hydro Power Plant

Sun Moon Lake

Changhua Renewable Energy Park

NUTHOS-13, Taichung *September 5th~9th, 2022*

City Tour

National Taichung Theater

4 7 11

Fulfillment Amphitheatre

10 27 39

Tunghai University

15 24 61

Maple Garden

4

TIGER CITY

5

Feng Chia Night Market

11 19 26

National Museum of Natural Science

13 23 48

NUTHOS-13, Taichung *September 5th~9th, 2022*

Registration Fee and Discount

	Early Brid			Regular			One-Day	On-Site
type	Student	Member	General	Student	Member	General		
Reg. Fee	400	800	1000	500	900	1100	600	1200
Tea time	v	v	v	v	v	v	v	v
Lunch	v	v	v	v	v	v	v	v
Banquet	v	v	v	v	v	v		v

Additional banquet needs to be requested by registered person, and charges $60 USD/person

The LIN Hotel will provide preferential rates and high-class rooms during meeting period

NUTHOS-13, Taichung *September 5th~9th, 2022*

You are all cordially invited to join us at this conference and pay a visit to Taiwan, simply to see

- ***why we could fight coronavirus most successfully***
- ***why we made the 2nd best country worldwide in medicine***
- ***why we are ranked 2nd most friendly country in the world***
- ***how we preserved the heritage Chinese culture genuinely***

ATTACHMENT E

Slides with details about NURETH-19 are attached after this page.

NURETH 19

August 29 - September 3, 2021

The Square - Brussels, Belgium

ANS THD MEETING

7 JUNE 2020

ONLINE

Conference Committees

- General Chair and Co-Chairs
  - Hamid Aït Abderrahim, SCK CEN
  - Jean-Paul Chabard, EDF
  - Xiaodong Sun, University of Michigan
- Honorary Chairs
  - Yassin Hassan, Texas A&M
  - Hisashi Ninokata, Politechnico di Milano
  - Michel Giot, UCLouvain
- Honors & Award Com Chair and Co-Chairs
  - Sofiane Benhamadouche, EDF
  - Leon Cizelj, JSI
  - Sama Bilbao y Leon, OECD-NEA
- Steering Com Chair and Co-Chairs
  - Steve Bajorek, US NRC
  - Boa Wen Yang, Delta Energy Group
  - Martina Adorni, Bel-V
  - Michèle Auglaire, ENGIE Tractebel
- Tech Prog Com Chair and Co-Chairs
  - Elia Merzari, Penn State University
  - W. David Pointer, ORNL
  - Chul-Hwa Song, KAERI
  - Ferry Roelofs, NRG
- Tech Prog Com Assistant Chairs
  - Katrien Van Tichelen, SCK CEN
  - Philippe Planquart, VKI
  - Xiaojing Liu, SJTU
  - Hiroyuki Yoshida, JAEA
  - Mathieu Martin, Terrapower
  - Igor Bolotnov, NCSU
- Local Organizing Com Chairs
  - Katrien Van Tichelen, SCK CEN
  - Philippe Planquart, VKI
  - Ferry Roelofs, NRG

Overview on Preparations

- Communication
  - Conference website and contact address
    - www.nureth19.com
    - nureth19@sckcen.be
  - Social media
    - LinkedIn event: invitation only by members

    ⇨ Please share among your contacts and invite experts!
  - Publicity slide
    - See next page

    ⇨ Please share!

19th International Topical Meeting on Nuclear Reactor Thermal Hydraulics (NURETH-19)

August 29 - September 3, 2021 • Brussels, Belgium • The Square

www.nureth19.com

LEAD THE FLOW

SPECIAL EVENTS

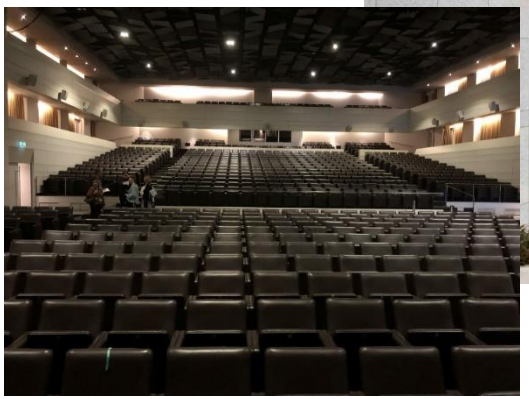
- CONFERENCE DINNER
- TECHNICAL TOURS
- AWARD CEREMONY
- POSTER COMPETITION
- MOVIE COMPETITION
- YOUNG GENERATION EVENT
- ATOMIC JOGGING

ABSTRACT DEADLINE: NOVEMBER 8, 2020

NOVEMBER	SUBMISSION OF ABSTRACTS: **November 8, 2020**
DECEMBER	ABSTRACT ACCEPTANCE: **December 18, 2020**
FEBRUARY	DRAFT PAPER SUBMISSION: **February 28, 2021**
APRIL	PAPER REVIEW NOTIFICATION: **April 30, 2021**
MAY	FINAL PAPER SUBMISSION: **May 28, 2021**

Venue

- Venue: The Square – Brussels, Belgium
  - ✓ Contract signed and dedicated project manager appointed
  - ✓ Site visit by SCK CEN, VKI and NRG in January



Overview on Preparations

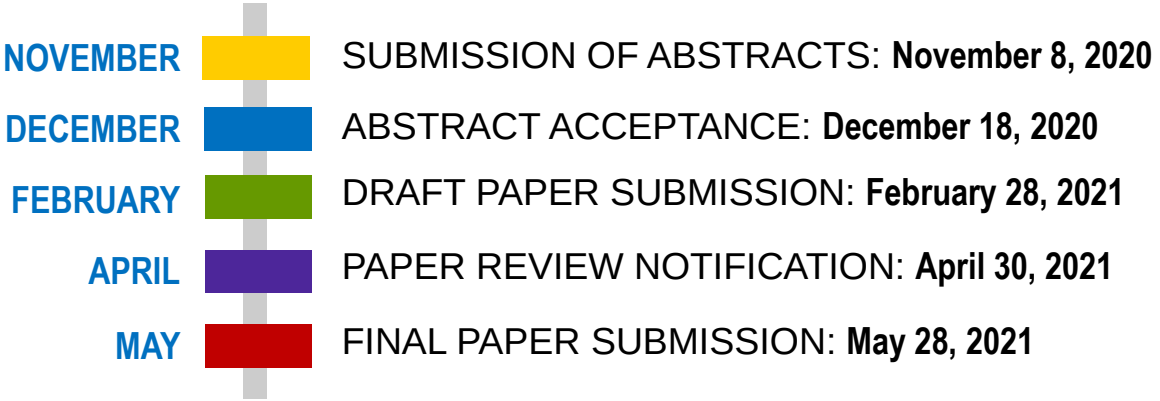
- Schedule

	SUNDAY 29/08/2021	MONDAY 30/08/2021	TUESDAY 31/08/2021	WEDNESDAY 1/09/2021	THURSDAY 2/09/2021	FRIDAY 3/09/2021
				Atomic jogging		
AM1	Workshops	Opening ceremony	Plenary Keynotes Technical sessions	Plenary Keynotes Technical sessions	Plenary Keynotes Technical sessions	Technical visits
	coffee break	*coffee break*	*coffee break*	*coffee break*	*coffee break*	
AM2	Workshops	Plenary Keynotes Technical session	Technical sessions	Technical sessions	Technical sessions	
	Lunch break (no host)	Lunch break (host) Technical Expo	Lunch break (host) Technical Expo	Lunch break (no host) Poster session	Lunch break (no host)	
PM1	Workshops	Plenary Keynotes Technical sessions	Poster pitch & Panel Technical sessions	Poster pitch & Panel Technical sessions	Plenary Keynotes Technical sessions	
	coffee break	*coffee break*	*coffee break*	*coffee break*	*coffee break*	
PM2	Registration	Technical sessions	Technical sessions	Technical sessions	Technical sessions	
EVENING	Welcome reception	Committees event	Young Professionals and students event	Conference dinner		

Paper submission

- Paper Submission and Review
  - Submission opens June 2020
  - NUTHOS authors will be invited to submit
  - Important dates

ABSTRACT DEADLINE: NOVEMBER 8, 2020



Technical Program Committee

- Technical Tracks (7) and Special Sessions (18)
  - Agreed with conference chairs and TPC
  - Track chairs appointed
  - Session organizers identified and being contacted
- Keynotes (15)
  - Keynotes identified and being contacted

Sponsoring

- Sponsor Letter and Leaflet prepared and available

Sponsorship package	Budget in €
DIAMOND - von Karman	25.000
PLATINUM - Burgers	15.000
GOLD - Stevin	10.000
SILVER - Navier	5.000
BRONZE - Stokes	2.500

- Potential candidates for sponsoring identified and being addressed by Steering Committee
- Contact person and Email:
  - Gabriele.manfredi@sckcen.be
  - nureth19@sckcen.be

Thank you!