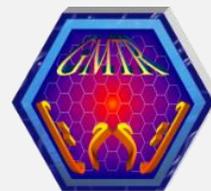




PHYTRA5

5th International Conference on Physics and Technology



The Moroccan Association for Nuclear Engineering and Reactor Technology

of Reactors and Applications



“Advancing Reactor Physics for Nuclear Safety and Sustainability”

August 23-26, 2020, Xi'an, China

ABOUT PHYTRA

The International Conference on Physics and Technology of Reactors and Applications (PHYTRA) is a series of topical meetings focusing on reactor modeling and simulation, advanced reactor concepts and designs, and other general reactor physics topics. Have been organized in Morocco in 2007, 2011, 2014 and 2018 by the Moroccan Association for Nuclear Engineering and Reactor Technology (GMTR), PHYTRA5, organized by Xi'an Jiaotong University (XJTU), is also expected to be an outstanding international event in Xi'an, China in August 23-26, 2020. It will invite worldwide reactor physicists, researchers, engineers, students to share their latest researches and to discuss the key issues concerning reactor physics and related areas.

CONFERENCE TOPICS

A wide range of topics related to nuclear reactor physics will be covered, in particular, the conference will cover (but not limited to) the following topics:

1. Deterministic Transport Computational Methods
2. Monte-Carlo Methods and Developments
3. Reactor Analysis Methods
4. Nuclear Data, Evaluation and Improvements
5. Fuel Management and Optimization
6. Multi-Physics Simulations
7. Sensitivity and Uncertainty Analysis
8. Verification and Validation
9. Advanced Reactor Concepts and Design
10. High Performance Computing
11. Experiments, Benchmarks and Testing Facilities

12. NPP Operation, Transients and Safety Analysis
13. Education in Reactor Physics
14. Radiation Application & Nuclear Safeguards
15. Special sessions

HONORARY CHAIR

Xiaoping Ouyang

Academician of Chinese Academy of Engineering

CONFERENCE GENERAL CHAIRS

- ❖ **Chair**
Prof. Hongchun Wu (XJTU, China)
Email: hcwu@xjtu.edu.cn
- ❖ **Co-Chair**
Prof. L. Erradi (Mohammed V Univ., Morocco)

TECHNICAL PROGRAM COMMITTEE

- ❖ **Chair**
Prof. Liangzhi Cao (XJTU, China)
Email: caolz@xjtu.edu.cn
- ❖ **Co-Chairs**
Prof. D. J. Lee (UNIST, Korea)
Prof. W. Shen (COG, Canada)
Prof. F. Rahnama (Georgia Tech., USA)
Prof. P. Ravetto (Polito, Italy)
- ❖ **Members**

H. Abdel-Khalik (USA)	B. Bromley (Canada)
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Kaiming Feng (China)	B. Forget (USA)
J. L. Francois (Mexico)	M. Fratoni (USA)

<http://phytra5.csp.escience.cn>

FIRST ANNOUNCEMENT & CALL FOR PAPERS

Long Gu (China)	A. Hebert (Canada)
S.G. Hong (Korea)	Jingliang Hu (Canada)
J. Hykes (Sweden)	H. G. Joo (Korea)
Y.H. Kim (Korea)	Fu Li (China)
Yunzhao Li (China)	Jinggang Li (China)
Zhouyu Liu (China)	Yu Ma (China)
G. Marleau (Canada)	B. Nacir (Morocco)
A. Reneiski (Germany)	D. Sato (Japan)
D. Serghiuta (Canada)	J. Tajmouati (Morocco)
Chuntao Tang (China)	Dean Wang (USA)
Yican Wu (China)	Zeyun Wu (USA)
A. Yamamoto (Japan)	Bo Yang (China)
Hui Yu (China)	Xianbao Yuan (China)
Haochun Zhang (China)	Youqi Zheng (China)
Tiejun Zu (China)	

*More members to be confirmed.

ABSTRACT SUBMISSION

Please submit your abstract (~400 words /one page) describing work that is NEW, SIGNIFICANT and RELEVANT to the conference topics. Instructions for abstracts submission can be found on the conference website <http://phytra5.csp.escience.cn>

IMPORTANT DATES

Nov. 30, 2019:	Abstract Submission Deadline
Dec. 31, 2019:	Abstract Acceptance Notification
Mar. 31, 2020:	Full Paper Submission Deadline
Apr. 30, 2020:	Paper Acceptance Notification
Jul. 31, 2020:	Deadline for Early Registration

REGISTRATION FEE

	Early Registration	Late Registration
Members*	\$ 700	\$ 800
Non-members	\$ 850	\$ 950
Students	\$ 400	\$ 500

*Members of sponsor societies

The registration fee includes: welcome reception, banquet, coffee breaks, lunch during the conference days, the conference program, and the abstracts book. The payment procedure and the registration form will be provided through the conference website.

XI'AN CITY

Xi'an, cradle of Chinese civilization, records the great changes of the Chinese nation just like a living history book. During 3,100 years development, 13 dynasties such as Western Zhou (11th century BC - 771 BC), Qin (221 BC - 206 BC), Western Han (206 BC - 24 AD) and Tang (618 - 907) placed their capitals here. The cultural

and historical significance of Xi'an, as well as the abundant relics and sites, help Shaanxi Province enjoy the laudatory title of 'Natural History Museum'. The Terracotta Warriors and Horses is a form of funerary art that has been praised as a world miracle creation. The Mausoleum of Emperor Qin Shi Huang is listed on the World Heritage List, and the City Wall of the Ming Dynasty (1368-1644) is the largest and most intact Ming Dynasty castle in the world.



PAPER PUBLICATION

All accepted papers will be included in the conference proceedings. Some selected papers will be published in a special issue in **Annals of Nuclear Energy**.

EXHIBITION

Some space, adjacent to the lecture and poster rooms, will be available for the exhibition of leaflets, books and small equipment. Please contact Dr. Xianan Du by:

xndu0615@gmail.com

WORKSHOP

Prior to the conference, we will conduct the workshops. If you are interested to host a workshop, please contact Prof. Yunzhao Li by: yunzhao@xjtu.edu.cn

CONFERENCE CONTACT

Please visit: <http://phytra5.csp.escience.cn> for all the information of the conference. For any inquiry, please contact Dr. Yongping Wang by:

wangyongping0627@mail.xjtu.edu.cn

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