

2nd International Conference on Radiation and Emission in Materials

Bangkok, Thailand December 15-18, 2019



Thailand Institute of Nuclear Technology



Plasma & Beam Physics Research Facility



" Call for Abstracts "

All authors are cordially invited to participate in the ICREM 2019 conference. Please visit the website for more details.

icrem2019.science.cmu.ac.th

Organizer & Co-organizer

Organizer Thailand Institute of Nuclear Technology

Co-organizers Plasma & Beam Physics Research Facility, Chiang Mai University School of Materials Science and Innovation, Mahidol University **Chairs**

Conference Chair Assoc.Prof. Somsak Dangtip, Thailand Institute of Nuclear Technology

Conference Co-Chair Prof. Andrej Kuznetsov, University of Oslo

Local Organizing Chairs Dheerawan Boonyawan, Chiang Mai University Toemsak Srikhirin, Mahidol University

Conference Secretariat

Nopporn Poolyarat, Thailand Institute of Nuclear Technology; *email: noppornp@tint.or.th*

Important Dates

Abstract Submission Deadline September 15, 2019 Notification of Abstract Acceptance October 1, 2019 Early Bird Registration Deadline October 30, 2019

Publication

The papers will be published in the nominated SCI journals.

Registration fees

Early registration	: US\$ 350
Late registration	: US\$ 500
Student registration	: US\$ 250

Events & Excursion

- Conference Banquet
- BKK Culture Academy Evening



Venue & Travel

Mahidol University Salaya Campus;

the venue is easily accessible by taxi from the downtown Bangkok and its airports.



The International Conference on Radiation and Emission in Materials (ICREM) covers the radiation and emission phenomena in its natural combination, in the range from accelerated ionizing particles to THz electromagnetic radiation, building on the similarity of the basic principles and multifunctional applications. The mission of the ICREM is to bring new perspectives to the field of the radiation phenomena in advanced materials by providing a forum for researchers and industrialists for exchanging data and ideas along the follow ing specific tracks:

- Accelerated particle beams
- Fundamentals of light-matter interaction
- Radiation and emission at IR and THz
- Nuclear radiation for smart materials
- Advanced emitting devices
- Plasma Technology
- Photovoltaics

The focus is on advances in fundamental understanding as well as its exploitation in modern instrumentations (scientific, technological, medical, etc) and technologies/ devices.

Confirmed invited talks

Confirmed invited talks
Accelerated particle beams
Prof Roger Webb, University of Surrey, UK
Quantum technology with deterministic single ion implantation
Prof Jonatan Slotte, Aalto University, Finland
Vacancy defects studied with ion and positron beams
Prof Haiyang Lu, Peking University, China
Positron injection and acceleration in laser driven wakefield
Prof Hiroyuki Hama, Tohoku University, Japan
Superconducting electron accelerators for various applications
Fundamentals of Light-matter interaction
Prof Michael Reshchikov, Virginia CU, USA
Thermal quenching mechanisms for defect-related luminescence
Prof Schuer Mechanisms for defect-related luminescence
Prof Chi Chung Ling, Hong Kong University, Hong Kong
Optic-magnetic properties of ZnO based materials
Prof Elizeta Guziewicz, Institute of Physics, Poland
Optics of the shallow states in ZnO grown in 0- or Zn-rich conditions
Prof Chi Chung Yang, National Taiwan University, Taiwan
Surface plasmon coupled light-emitting devices
Lasers and LEDS
Prof Motoaki Iwaya, Meijo University, Nagoya, Japan
Towards current injection UV-B lasers using high quality relaxed AlGaN and polarization doping method
Prof J. Huang, National Taiwan University, Taiwan
Surface plasmon coupled light-emitting diodes
Prof J. Huang, National Taiwan University, Taiwan
Tor Miroshi Fujioka, University of Tokyo, Japan
High quality nitride films and devices with pulsed sputtering
Prof J. Huang, National Taiwan University, Taiwan
Tor J. Huang, National Taiwan University, Taiwan
Tor J. Huang, Zheijang University, IR and THz Prof Shengqiang Zhou, HZDR, Rossendorf, Germany Infrared photoresponse from hyperdoped Si by ion implantation Prof Arnel Salvador, University of Philippines, Manila THz spectra of tensile and compressive strained lifted-off GaAs films Radiation detection and devices Dr David Rogers, Nanovation, Châteaufort, France Radiation hard oxide materials for new space photonics applications Prof Jiandong Ye, Nanjing University, Nanjing, China Solar-blind photodetectors based on Ga₂O₃ materials Prof Henry Radamson, Inst of Microelectronics, Beijing, China Challenges of nano-scale transistor processing Dr Yu Song, Microsystems and THz Center, Chengdu, China United model of dose rate dependences for the radiation- induced defect accumulation in bipolar transistors IR and THz

Exhibition & Sponsorship

Exhibitors and sponsors from industries and institutions are invited to explore the exciting opportunities provided with the participation in the ICREM2019. Please contact the conference secretariat.



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