

Preface from ICTA2013 Conference Chair



On behalf of the Organizing and Technical Committees, we are delighted to host the International Conference on Traditional and Advanced Ceramics (ICTA2013) in conjunction with ASEAN Ceramics 2013 at BITEC, Bangkok, Thailand during 11-13 September 2013.

The conference consists of 6 plenary lectures, 16 invited lectures, 50 oral research presentations and 71 poster presentations covering recent advancements in Ceramic and Glass Materials research ranging from Industrial Ceramics, Advanced Ceramics, and Glass technology to Ceramic Art and Design. A total of 150 scientists and researchers from universities, institutes and industries from 25 countries are contributing to this International Conference to discuss and share further developments in Ceramic and Glass Materials.

We hope that, apart from the superb scientific and technical program, all participants will have wonderful experience to enjoying sightseeing in Bangkok during the conference period. The participants will also discover the beauty of the City of Smile and also have a chance to taste the marvels of Thai cuisine, one of the best cuisines in the world.

Dr. Somnuk Sirisoonthorn
ICTA2013 Conference Chair

Preface from ICTA2013 Conference Chair



On behalf of the organization committee, I would like to welcome you to Bangkok, the capital city of Thailand and to the International Conference on Traditional and Advanced Ceramic 2013 (ICTA2013). For this special occasion, the conference is held in conjunction with ASEAN Ceramics 2013, the most comprehensive ceramic-exhibition in Asia. ASEAN Ceramic 2013 and ICTA2013 eventually bring together ceramic experts, ceramic suppliers, machine manufacturers, ceramic scientists and engineers from all over the world.

ICTA2013 has potentially become one of the most distinguished international meetings for researchers, scientists, engineers, and specialists in the fields of ceramic and glass. The conference offers the most updated researches in science and technology of this field, as well as the opportunity for the ceramic and glass experts to present, share and discuss their works intensively on the topics of Ceramic Industry Research, Advanced Ceramics, Glass Science and Technology, and Ceramic Art and Design.

The success of ICTA2013 depends on many people who have worked very hard in planning and organizing the technical program/exhibition and supported all the meeting arrangements. Thus, I would like to thank all the organization committee, technical committee, sponsors, and the participants for all the successful outcomes of the meeting.

Assist. Prof. Dr. Sirithan Jiemsirilers
ICTA2013 Conference Chair

Committee

Conference Chairs

Dr. Somnuk Sirisoonthorn	The Thai Ceramics Society and National Metal and Materials Technology Center
Assit. Prof. Dr. Sirithan Jiemsirilers	Chulalongkorn University

International Committees

Dr. John Ballato	Clemson University, USA
Prof. Dr. Reinhard Conradt	RWTH Aachen University, Germany
Prof. Dr. Alpagut Kara	Anadolu University, Turkey
Prof. Koji Ioku	Tohoku University, Japan
Prof. Akira Nakajima	Tokyo Institute of Technology, Japan
Prof. Koichi Niihara	Nagaoka University of Technology, Japan
Prof. Jae Hwan Pee	Korea Institute of Ceramic Technology, Korea
Dr. Dan Perepa	The University of New South Wales, Australia
Prof. Fritz B. Prinz	Stanford University, USA
Prof. Ahmad Safari	The State University of New Jersey, USA
Prof. Kazuya Saito	Toyota Technological Institute, Japan
Prof. Yoshio Sakka	National Institute for Materials Science, Japan
	National Cheng Kung University, Taiwan
Dr. Danilo Suvorov	The European Ceramic Society and Jožef Stefan Institute, Slovenia
Prof. Dr. Hiroshi Tamura	Kansai University, Japan
Prof. Dr. Kenji Uchino	Office of Naval Research and The Pennsylvania State University, USA
Prof. Dr. Shigetaka Wada	Chulalongkorn University, Thailand
Dr. Phillip Walls	Hitech Materials Pty Ltd., Australia
Assoc. Prof. Tomoaki Watanabe	Meiji University, Japan
Prof. Toyohiko Yano	Tokyo Institute of Technology, Japan
Prof. Masahiro Yoshimura	Tokyo Institute of Technology, Japan

Local Committees

Dr. Duangduen Atong	National Metal and Materials Technology Center
Dr. Pavadee Aungkavattana	National Metal and Materials Technology Center
Assit. Prof. Dr. Wantanee Buggakupta	Chulalongkorn University
Assit. Prof. Dr. Duangrudee Chaysuwan	Kasetsart University
Assit. Prof. Dr. Benya Cherdhirunkorn	Thammasat University
Assit. Prof. Sathorn Chonlachatapinyo	Phranakhon Rajabhat University
Dr. Nutthita Chuankrerkkul	Chulalongkorn University
Dr. Chutima Eamchotchawalit	Thailand Institute of Scientific and Technological Research
Dr. Tepiwan Jitwatcharakomol	Department of Science Service
Dr. Oratai Jongprateep	Kasetsart University
Assit. Prof. Dr. Sukasem Kangwantrakool	Suranaree University of Technology
Dr. Sujarinee Kochawattana	Chulalongkorn University
Dr. Nuntaporn Kongkajun	Thammasat University
Dr. Pitak Laoratanakul	National Metal and Materials Technology Center
Dr. Charusporn Mongkolkachit	National Metal and Materials Technology Center
Dr. Siriphan Nilpairach	Metallurgy and Materials Science Research Institute
Dr. Thammarat Panyathanmaporn	National Metal and Materials Technology Center
Assit. Prof. Dr. Dujreutai Phongkao Kashima	Chulalongkorn University
Assit. Prof. Dr. Rojana Pornprasertsuk	Chulalongkorn University
Dr. Lada Punsukumtana	Department of Science Service
Dr. Karn Serivalsatit	Chulalongkorn University
Assit. Prof. Dr. Pornnapa Sujaridworakun	Chulalongkorn University
Dr. Parjaree Thavorniti	National Metal and Materials Technology Center
Dr. Apirat Theerapapvisetpong	Chulalongkorn University
Dr. Nisanart Triphol	Chulalongkorn University
Prof. Emeritus Dr. Tawee Tunkasiri	Chiang Mai University
Dr. Anucha Wannagon	National Metal and Materials Technology Center
Assit. Prof. Dr. Thanakorn Wasanapianpong	Chulalongkorn University
Assit. Prof. Dr. Darunee Wattanasiriwech	Mae Fah Luang University
Assit. Prof. Dr. Rattikorn Yimnirun	Suranaree University of Technology
Dr. Sorachon Yoriya	National Metal and Materials Technology Center

Conference Secretariats

Mr. Peerapong Pinwanich

National Metal and Materials Technology Center

Technical Staffs

Ms. Wanngam Weeraphasuk

National Metal and Materials Technology Center

Ms. Kobkul Amonmongkul

National Metal and Materials Technology Center

Mr. Ponlathorn Wenunun

National Metal and Materials Technology Center

Mr. Thanakorn Chaipotar

National Metal and Materials Technology Center

Mr. Akrapol Soisunval

National Metal and Materials Technology Center

Mr. Boonrak Kanjanawarawanich

National Metal and Materials Technology Center

Organizers and Sponsors

Organizers

The Thai Ceramic Society
National Metal and Materials Technology Center
Chulalongkorn University
Asian Exhibition Services (AES) Ltd.
Department of Industrial Promotion
Department of Science Service
Kasetsart University
Phranakhon Rajabhat University
Suranaree University of Technology
Thailand Institute of Scientific and Technological Research
Valaya Alongkorn Rajabhat University
Ceramic Industries Development Center
Chiang Mai University
Khon Kaen University
King Mongkut's Institute of Technology Ladkrabang
King Mongkut's University of Technology North Bangkok
King Mongkut's University of Technology Thonburi
Loei Rajabhat University
Mae Fah Luang University
Prince of Songkla University
Sakon Nakhon Rajabhat University
Silpakorn University
Sirindhorn International Institute of Technology
Thammasat University

Sponsors

Asian Exhibition Services (AES) Ltd.
Office of Naval Research
Siam Cement Public Company Limited