



Contents lists available at ScienceDirect

Surface & Coatings Technology

journal homepage: www.elsevier.com/locate/surfcoat

Preface

Dedicated to Russell Mark Gwilliam



Prof Russell Mark Gwilliam obituary

It is with great sadness that we report the death of Russell Gwilliam. Russell had been a key member of the Surrey University community for more than 30 years and was highly respected in his field. He played a pivotal role in driving forward world-class research at the Advanced Technology Institute and was a true inspiration to undergraduates, postgraduates and colleagues. Russell Gwilliam was the Professor of Semiconductor Process Engineering and Director of Technology for Surrey Ion Beam Centre. He had over 30 years experience in the development of advanced semiconductor processes in materials including Si, III–Vs, II–VIs, SiC and diamond and was a founder and director of Si-Light Technologies Ltd. He was also a regular invited speaker and chair at international conferences, he had over 350 publications and several patents in the field and built a large industrial clientele who routinely access the ion beam facilities for development and proof of concept programs through to pilot production and technology transfer to foundries. He was the UK representative on several International Conference Scientific Committees including the Ion Implantation Technology, the Ion Beam Modification of Materials and the Surface Modification of Materials with Ion Beams. He had an international reputation in the field of ion-implantation and had a significant track record in the area of silicon photonics. He was a member of the IoP and the IET and carried C.Eng., C.Phys. and C.Sci.

Ion Beam Centre, University of Surrey, Thursday 4 August 2016.

Just when we very nearly completed the editing work for the SMMIB-2015 Proceedings in the beginning of August 2016, the shocking news of the sudden passing away of Russell at his age of only 59 shook our ears. All of us could not even believe it. Too unexpected. Too astonishing. We just communicated with him in the last week of July for the affairs of the proceedings editing. How could he suddenly leave away from us, from the international ion beam society? Russell was the key member of the SMMIB International Committee to suggest us to organize the SMMIB2015 at Chiang Mai, Thailand. He had loved Chiang

Mai, Thailand and Thai people so deeply with a number of times of visiting us at Chiang Mai University for various missions during his scientific career. He had always provided us with his warm-hearted hands upon our requests. We could honestly say that our ion beam technology development has certainly involved Russell's heart and blood. Russell actively joined the organizing work as well as participation of the SMMIB2015. Every participant of the SMMIB2015 could never forget such a heart-moving scene that only he persisted in sitting and drinking beer in the open-air banquet site in the suddenly coming rain while everybody else went into hiding from the rain, because he did not want the banquet disappointing. As one of the Guest Editors of the SMMIB2015 Proceedings, Russell had worked till the last minute. We cannot now find any word and way to express our deepest sorrow. We have lost a so beloved friend and colleague. Writing these words here we would tell Russell that we are completing your unfinished work and you can now have a peaceful rest without any worry.

We remember you, Russell, forever.

Dheerawan Boonyawan, Chair
Liangdeng Yu, Co-chair
Udomrat Tippawan, Secretary General
SMMIB2015 Organizing Committee

At Chiang Mai, Thailand

August 2016

Preface

This special issue of Surface Coatings and Technology contains manuscripts of research work presented at the 19th International Conference on Surface Modification of Materials by Ion Beams (SMMIB-19) held at Chiang Mai, Thailand during the period November 22–27, 2015. The Conference was Endorsed by the Materials Research Society® (MRS) and organized by the Plasma and Beam Physics Research Facility (PBP), Chiang Mai University and the Thailand Center of Excellence in Physics (ThEP Center). This conference is the 19th in a series that began in Manchester, England in 1975. The SMMIB now rotates among Europe, US and Asia biennially. And this is the first time that SMMIB takes place in Thailand in nearly four decades of the event.

The conference was aimed at bringing ion beam, plasma and accelerator people together to an international forum for exchanges and discussions of their research progresses, knowledge in new developments and experiences in novel experiments, particularly on two recently rapidly developing directions – nano- and bio-modifications, and hence stimulating motivations and cooperation.

The SMMIB-2015 has been recognized by the SMMIB International Committee as one of the most successful conferences, involving about 150 participants from all six continents. In the conference, there were 13 Invited Review Talks, 13 Invited Oral Presentations, 61 Oral presentations and 77 Poster presentations. The presentations were structured in such a way that all participants could attend every talk, each participant got sufficient time to present his/her results and interacted with other delegates. Plenary invited lecture was given by eminent scientist and IUMRS secretary, Dr. John E. E. Baglin entitled "New Horizons for Ion Beam Science and Technology". The conference received more than a hundred contributed manuscripts. After very careful and strict reviewing and screening of the manuscripts, shared among the Guest Editors and the journal editor, about 70 papers have been selected for publication in this special issue. The papers are grouped together into different subject categories like fundamental phenomena on interaction between ions and material surface; modifications of biological and biocompatible materials; modifications of mechanical, chemical and transport properties; plasma based processes and industrial applications of ion beams. The editors would like to take this opportunity to thank all the participants who submitted their manuscripts during the conference and responded in time to editors' request at every stage from reviewing to final acceptance.

Special thanks are called for the sponsors of the conference including Chiang Mai University, The MRS, PINK GmbH Thermosysteme,

Plasma Technology Limited (PTL), Thai Unique Co. Ltd., and various private industries for their generous financial supports. All the PBP staffs who put in a tremendous effort in organizing this conference as well as during different stages of compilation of the papers during preparation of these proceedings deserve a special mention.

Proceedings Guest Editors:

P.K. Chu
D. Boonyawan
L.D. Yu*
U. Tippawan
R. Gwilliam
X.B. Tian

*Corresponding Editor:

Chiang Mai University, Department of Physics and Materials Science,
Chiang Mai 50200, Thailand

E-mail address: yuld@thep-center.org.

Available online xxxx



SMMIB-2015 logo



ENDORSED
MEETINGS



THAI UNIQUE CO. LTD.
www.thaiunique.com



PiNK®

Sponsors

Download English Version:

<https://daneshyari.com/en/article/5465156>

Download Persian Version:

<https://daneshyari.com/article/5465156>

[Daneshyari.com](https://daneshyari.com)