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**Registration**

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Registration Fee:

Company Participant	\$150
NUS, NTU, RI/RC Staff	\$100
Student	\$50

Closing Date: 6 June 2000

Payment through a crossed cheque made payable to “**Institute of Materials (East Asia)**” must accompany the registration form. Withdrawals must be made in writing to Institute of Materials (East Asia) by 12 June 2000. An administrative charge of 50% of the fee will be levied if cancellations are made after 12 June 2000. On the spot registration may be possible, which depends on the availability of places and will be by cash only. Lunch and refreshments will be provided.

Enquiries: Ms Ng Siu Din, on 790 6090, or at [assdng@ntu.edu.sg](mailto:assdng@ntu.edu.sg)

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**Registration Form****Name of Participant** \_\_\_\_\_

Prof/Dr/Mr/Mrs/Ms \_\_\_\_\_

Prof/Dr/Mr/Mrs/Ms \_\_\_\_\_

Prof/Dr/Mr/Mrs/Ms \_\_\_\_\_

**Affiliation** \_\_\_\_\_**Contact Person** \_\_\_\_\_**Telephone** \_\_\_\_\_ **Fax** \_\_\_\_\_**Email** \_\_\_\_\_**Cheque No.** \_\_\_\_\_ **Amount (S\$)** \_\_\_\_\_

Please mail the completed form and payment to:

Ms Ng Siu Din  
Institute of Materials (East Asia)  
c/o AMRC, School of Applied Science  
Nanyang Technological University  
Nanyang Avenue, Singapore 639798

## Workshop on Tissues, Biomaterials and Tissue Engineering

16 June 2000

**Venue**

NTU Alumni Town Club  
179 River Valley Road, River Valley Building  
Singapore 179033

**Organised by**

*School of Mechanical and Production Engineering  
Nanyang Technological University*

*Advanced Materials Research Centre  
Nanyang Technological University*

*Institute of Materials (East Asia)*

Biomaterials are used to replace part of a living system or to function in intimate contact with living tissue. Biomaterials is now a multidisciplinary subject which utilises findings from materials science and engineering, mechanical engineering, biology, and clinical science. Significant advances in biochemistry, cell and molecular biology, materials science and biomedical engineering in recent years have propelled the rapid emergence of the exciting, cross-disciplinary subject of tissue engineering. This workshop aims to provide participants with fundamental knowledge as well as the most recent developments in biomaterials science and engineering and tissue engineering. Researchers in industries, academia and governmental institutions are welcome to attend this workshop and will benefit from the in-depth coverage of various topics.

- Dr.M.Wang, Workshop Organiser

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**Programme of the Workshop**

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9:05	-	9:25	Registration
9:25	-	9:30	Welcome and Introduction
9:30	-	10:15	<i>Structure and Properties of Bone and Soft Tissues</i> Dr. Min Wang, School of MPE, Nanyang Technological University, Singapore
10:15	-	11:00	<i>Bioceramics</i> Dr. Paul Ducheyne, Department of Bioengineering, University of Pennsylvania, USA
11:00	-	11:15	Break
11:15	-	12:00	<i>Polymeric Biomaterials</i> Dr. Lin Li, School of MPE, Nanyang Technological University, Singapore
12:00		12:45	<i>Bioactive Composites</i> Dr. Min Wang, School of MPE, Nanyang Technological University, Singapore
12:45	-	13:30	Lunch
13:30	-	14:15	<i>Tissue Engineering</i> Dr. Paul Ducheyne, Department of Bioengineering, University of Pennsylvania, USA
14:15	-	15:00	<i>Supramolecules for Drug and Gene Delivery</i> Dr. Jun Li, Institute of Materials Research and Engineering, Singapore
15:00	-	15:15	Break
15:15	-	16:00	<i>Polymeric Microsphere Systems for Drug Delivery</i> Dr. Yi-Yan Yang, Institute of Materials Research and Engineering, Singapore
16:00	-	16:45	<i>Biological Performance of Materials</i>

16:45 - 17:00 Discussion and Concluding Remarks

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**Speakers**

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Paul Ducheyne received his PhD in Materials Science and Engineering from Katholieke Universiteit Leuven, Belgium, in 1976. After an NIH International Postdoctoral Fellowship at University of Florida, USA, he went back to Katholieke Universiteit Leuven to start his academic career. He joined Department of Bioengineering, University of Pennsylvania, USA, as an Associate Professor of Bioengineering in 1983 and since 1991 holds the posts of Professor of Bioengineering and Professor of Orthopaedic Surgery Research there. He is also Director of the Center of Bioactive Materials and Tissue Engineering in University of Pennsylvania. Dr. Ducheyne has had a distinguished career in biomaterials and tissue engineering research and served as President of Society for Biomaterials, USA. He provides consultancy to a number of major US healthcare companies and sits on editorial/advisory boards of leading biomaterials journals. Dr. Ducheyne has authored/co-authored more than 300 journal publications. He has edited at least 10 books since early 1980s. He is a holder of at least 25 US patents and a receiver of numerous honours/distinctions.

Jun Li received his BSc degree in Chemistry from Sichuan University, China, in 1985. He received his MSc (1992) and PhD (1995) in Macromolecular Science from Osaka University, Japan. He joined the Institute of Physical and Chemical Research, Japan, as a Special Postdoctoral Researcher in 1995 and was involved in synthesis and structural studies of biopolyesters and their supramolecular chemistry. In 1998, he joined the Institute of Materials Research and Engineering, Singapore, as a Research Fellow. His current research interests are development of novel biodegradable and biocompatible polymers and their applications to drug and gene delivery and tissue engineering. He has publications in *Nature*.

Lin Li graduated in 1982 with a BSc degree in Polymer Science from Beijing Institute of Chemical Technology, China. He continued his study in Polymer Science at Kyoto University, Japan, for his MSc (1986) and PhD (1989) degrees. He spent two years in R&D of polyurethane products in industry in Japan before he went to University of Toronto, Canada, for his postdoctoral research in areas such as molecular diffusion at polymer interface and phase separation of polymer blends during solution casting. He joined Mitsubishi Chemical Co., Japan, as a senior scientist in 1996. Since August 1999, Dr. Li has been an associate professor at Nanyang Technological University.

Min Wang received his BSc degree in Materials Science and Engineering from Shanghai Jiao Tong University, China, in 1985 and his PhD in Materials Science and Engineering from University of London, UK, in 1991. He started his career in biomaterials R&D when he joined the IRC in Biomedical Materials at University of London in 1991. He became a professional member of the Institute of Materials and a

Chartered Engineer in the UK in 1995. In 1997, he moved to Singapore to take up a faculty position. He is currently an associate professor in Nanyang Technological University. Over the years, Dr.Wang and his colleagues have developed a portfolio of new biomaterials for medical applications.

Yi-Yan Yang received her PhD from Tsinghua University, People's Republic of China, in 1990. She was an associate professor at Tsinghua University before she joined Institute of Materials Research and Engineering (IMRE), Singapore, in 1998. Dr.Yang

has excellent expertise in chemical engineering. She has developed a novel extraction and separation technology to recover organic materials in wastewater and her invention has been commercialised. She was a winner of several prestigious awards in technology in China. As Project Leader of the controlled-release group in IMRE, Dr.Yang is currently leading her group in the development of controlled-release devices for the delivery of drugs and vaccines.