

Venue	Off-site Event Venue	Heliconia Junior 3413	Heliconia Junior 3513	Heliconia Junior 3411	Heliconia Junior 3511	Heliconia Main Ballroom	Hibiscus 3602	Hibiscus 3604	Hibiscus 3606	Hibiscus 3702	Hibiscus 3704	Hibiscus 3706
Capacity		15	15	30	30	294	105	105	105	105	105	105
Saturday, 11 Jun 2022												
1330 - 1430		Cassia Junior 3211										
1445 - 1645				IFMBE Officers Meeting								
1700 - 1915				IFMBE AC Meeting (Part A)								
2000 - 2130	IFMBE AC Reception			IFMBE AC Meeting (Part B)								
Sunday, 12 Jun 2022												
0730 onwards		Registration (0730 onwards) and Coffee Break (1000-1100) Cassia Main Ballroom, Level 3										
0900 - 1045		IUPESM AC1										
1100 - 1300						Opening Ceremony						
1100 - 1110						Introduction						
1110 - 1120						Welcome Address by Congress Co-Chairs Chwee Teck Lim, Singapore Lip Teck Chew, Singapore						
1120 - 1125						IUPESM and BES President's Presentation James Goh, Singapore						
1125 - 1130						IFMBE President's Presentation Shankar Krishnan, USA						
1130 - 1135						IOMP President's Presentation Madan Rehani, USA						
1135 - 1140						SEAFOMP President's Presentation Chai Hong Yeong, Malaysia						
1140 - 1145						SMPS President's Presentation James Lee, Singapore						
1145 - 1150						International Science Council Speech Sir Peter Gluckman, New Zealand						
1150 - 1230						Presentation of IUPESM, IFMBE and IOMP Awards Ceremony						
1230 - 1330						Lunch Break, Exhibition and Poster Viewing Cassia Main Ballroom, Level 3				Lunch Break, Exhibition and Poster Viewing Cassia Main Ballroom, Level 3		
1330 - 1400						IUPESM Congress Lecture: Materials for the Future Sir Konstantin Novoselov, Singapore Session Chair: James Goh, Singapore						
1400 - 1430						Plenary Lecture 1: Building and Clinically Translating New Technology for Cancer Imaging and Targeted Radiation Therapy Paul Keall, Australia Session Chair: Lip Teck Chew, Singapore						
1430 - 1500						Plenary Lecture 2: Bioengineering Approaches to Heal the Body and Detect Diseases Earlier Molly Stevens, UK (RL) Session Chair: Chwee Teck Lim, Singapore						
1500 - 1630						IFMBE Toh Siew Lok BME Student Design Award Symposium Oral Presentations Session Chairs: Shin Ru Lin, Singapore Sarupraba Arjunan, Singapore 1. Febyran Setiawan, Taiwan 2. Sarah Si-En Chen, Singapore 3. Aisyah Ibrahim, Malaysia 4. Shashaank Abhinav Venkatesh, Singapore 5. Leslie Yessenia Cieza Huane, Colombia (RL)	Special Symposium 1 Materials for Immuno-engineering Session Chairs: Andy Tay, Singapore Ciro Chiappini, UK 202. Aram Chung, Republic of Korea (RL) 515. Koen Raemdonck, Belgium (RL) 477. Roey Einathan, Australia (RL) 145. Ciro Chiappini, UK 136. Peng Shi, Hong Kong (RL) 143. Zhen Gu, China	Special Symposium 2 Wearable Health Technology (Part 1) Session Chairs: Joo Chuan Yeo, Singapore Wei Gao, USA 139. Wei Gao, USA* 215. Miki Norihisa, Japan 782. Yuji Gao, Singapore (RL)	Special Symposium 3 Confinement Mechanobiology Session Chairs: Andrew William Holle, Singapore Konstantinos Konstantopoulos, USA 641. Konstantinos Konstantopoulos, USA* 639. Dennis Discher, USA 288. Yan-Jun Liu, China (PR) 443. Mark W. Tibbitt, Switzerland 787. Samantha Stehens, Australia	Special Symposium 4 Engineering Biology - A Primer Session Chairs: Chris Reynolds, UK Chueh Loo Poh, Singapore 714. Richard Ian Kitney, UK* (RL) 764. Wen Shan Yew, Singapore 647. Chueh Loo Poh, Singapore 806. Chris Reynolds, UK 751. Sierin Lim, Singapore (RL)	Special Symposium 5 Hot Topics in X-ray Imaging Radiation Protection Session Chairs: John Damilakis, Greece Cheryl Lian, Singapore 004: Cari Borrás, USA 179: Chen-Yu Huang, Australia (PR) 003: Eva Bezak, Australia 172: Aaron Tong, Singapore (RL) 471: Dale Bailey, Australia (PR) Discussion	
1630 - 1800	Joint Meeting of IFMBE Constitution & Bylaws Committee and Membership Committee					IFMBE Young Investigator Award Symposium Oral Presentations (Session 1) (12m+3m) Session Chair: Ali Bhagat, Singapore 405: Florian Mentzel, Germany 148: Dhravid Kumar, Singapore 229: Salar Tayebi, Belgium 361: Long Fei Ma, China (RL)	Special Symposium 7 Soft Robotics in Healthcare Session Chairs: Raye Yeow, Singapore Cecilia Laschi, Singapore 567: Cecilia Laschi, Singapore 191: Benjamin Ang, Singapore 590: Guo Zhan Lum, Singapore 704: Valdivia y Alvarado Pablo, Singapore 735: Matteo Cianchetti, Italy (RL) 768: Wen Li, China	Special Symposium 8 Wearable Health Technology (Part 2) Session Chairs: Joo Chuan Yeo, Singapore Seong Eun Yoon, Republic of Korea 373: Yoon Seong Eun, Republic of Korea 155: Noel Sng, Singapore 510: Yuan Ke, China (RL) 604: Tesema Workneh, Belgium (PR)	Special Symposium 9 Cyber-medical Systems and Robot-assisted Surgery Session Chairs: Chee Kong Chui, Singapore Levente Kovacs, Hungary 470: Levente Kovacs, Hungary* 198: Liangjing Yang, China 209: Yueming Jin, Hong Kong (RL) 327: Jing Zhang, China	Special Symposium 10 Testing Physics in Clinical Trials Session Chairs: Tomas Kron, Australia James Lee, Singapore 170: Tomas Kron, Australia 343: Joerg Lehmann, Australia 163: Vladimir Feygelman, USA 642: Nick Hardcastle, Australia 523: Stephen Kry, USA 100: Trang Nguyen, Vietnam	Special Symposium 11 Planned New Recommendations of ICRP [IOMP-ICRP-IAEA-WHO] Session Chairs: Madan Rehani, USA Cheryl Lian, Singapore 498: Christopher Clement, Canada* 498: Madan Rehani, USA 498: Jenia Vassileva, Austria 498: Emilie Van Deventer, Switzerland	Education Session 1 IOMP School: Advances in Radiation Therapy Dosimetry Session Chair: Arun Chougule, India 1. Michael Mazonakis, Greece 2. Geoffrey Ibbot, USA
1800 - 1930	IFMBE CORAL Meeting					IOMP Best Presentation Award Symposium Oral Presentations (10m+2m) Session Chair: Simone Kodulovich Renha, Brazil Melissa Martin, USA 454: Luis Aguilles, Colombia 340: Wilbur Fum, Singapore 113: Christian Velten, USA 281: Gedik Yunus Can, Germany 317: Naonori Hu, Japan (PR) 416: Riccardo Mirabelli, Italy (RL) 423: Samira Ravanbakhsh, Canada (PR)	Special Symposium 12 Bioelectronic Technologies, Diagnostics, and Therapies Session Chairs: John Ho, Singapore Jerald Yoo, Singapore 472: Jerald Yoo, Singapore* 272: John Ho, Singapore 180: Kong Yong Lin, USA 312: Philipp Gutruf, USA (RL) 297: Peter Tseng, USA (PR)	Special Symposium 13 Computer Simulation in Medical Devices Development Session Chairs: Ichiro Sakuma, Japan Kiyotaka Iwasaki, Japan 339: Ichiro Sakuma, Japan 329: Kiyoyuki Chinzei, Japan (RL) 289: Shigeo Wada, Japan (RL) 677: Kiyotaka Iwasaki, Japan 274: Takashi Ashihara, Japan (RL) 207: Naoki Tomii, Japan (PR)	Oral Session 1.1 BioMechanics and Mechanobiology Session Chairs: Andrew William Holle, Singapore Guy Genin, USA 684: Guy Genin, USA* (RL) 366: Andrew William Holle, Singapore 355: Jin Zhou, China (PR) 268: Jindrich Adolof, Czech Republic 603: Simini Franco, Uruguay	Special Symposium 14 Scientific and Strategic Leadership in Medical Physics - We Need Both! Session Chairs: Carmel J. Caruana, Malta James Lee, Singapore 119: Carmel J. Caruana, Malta* 120: Carmel J. Caruana, Malta Kwan Hoong Ng, Malaysia 162: Eric Pace, Malta 240: Lukmanda Evan Lubis, Indonesia (RL)	Special Symposium 15 Current Knowledge of Radiobiological Aspects of Novel Treatment Techniques Session Chairs: Cheryl Lian, Singapore Hong Jin Toh, Singapore 175: Loredana Marcu, Romania (RL) 546: Ivan Kempson, Australia 117: Yolanda Prezado, France (PR) 318: Taku Inaniwa, Japan (PR) 521: Jake Cameron Forster, Australia (PR) 123: David Carlson, USA (RL)	Education Session 2 16th ACOMP Course: Proton Therapy Session Chair: Sung Yong Park, Singapore 1. Antony Lomax, Switzerland (RL) 2. Joerg Rottmann, Singapore
1930 - 2030						WC2022 Welcome Reception Cassia Main Ballroom, Level 3						

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Tuesday, 14 Jun 2022												
0730 onwards							Registration Cassia Main Ballroom, Level 3					
0800 - 0830		0800-1000 IFMBE FJC / Publisher Present + Editorial Board			0900-1000 IUPESM WIMBPBE Task Group	0830-0915 Meet the Expert: Protein Engineering for a "Bio-Better" Next- Generation Therapeutic Edward Wong, Singapore (Sponsored by Genscript Asia Pacific)	Education Session 7 IFMBE CED Benefit of our Extensive Hacking Repository Collection for Global Research Session Chairs: Elliot Sloane, USA (RL) Tom Judd, USA (RL) 1. Elliot Sloane, USA (PR) 2. Elliot Sloane, USA (PR) 3. Luis Fernandez, Mexico (PR) 4. Fabiola Martinez, Mexico (PR) 5. Almir Badnjevic, Bosnia 6. Mladen Poluta, South Africa (PR) Discussion	Special Symposium 25 Organ Doses from Diagnostic and Therapeutic Procedures: Necessity and Feasibility Session Chairs: Xie George Xu, China Soung Soon Tay, Singapore 469: Madan Rehani, USA 283: Xie George Xu, China 337: Peter F. Caraccapa, USA 333: Weihai Zhuo, China	Special Symposium 26 Material Systems for Quantitative Mechanobiology Session Chair: Amrinder Nain, USA 757: Pen-hsiu Grace Chao, Taiwan (RL) 763: Amrinder Nain, USA	Oral Session 3.1 Bioelectronics and Electroceuticals Session Chairs: Hulin Shao, Singapore Sukpramote Thanaporn, Thailand 016: Haixia Zhang, China, People's Republic of* 017: Hulin Shao, Singapore* 783: Thanaporn Sukpramote, Thailand 781: Yuxin Liu, Singapore 396: Tae-Min Jang, Republic of Korea (RL)	Education Session 8 Advances in In-Vivo Dosimetry for External Beam Radiotherapy (Sun Nuclear) Session Chair: Yamini Sivashunmugam, Singapore 1. Vladimir Feygelman, USA 2. Paul Doolan, Cyprus	Education Session 9 18th ACOMP Course: Quality & Safety in SBRT Session Chair: Lip Teck Chew, Singapore 1. Indra Das, USA MLC Tracking: Clinical Rationale, Clinical Experience, Guidelines & Future Directions 2. Paul Keall, Australia
0830 - 1000												
1000 - 1030						Coffee Break, Exhibition and Poster Viewing Cassia Main Ballroom, Level 3	Coffee Break, Exhibition and Poster Viewing Cassia Main Ballroom, Level 3					
1030 - 1100			1000-1100 IFMBE E & A Committee Meeting			Plenary Lecture 5 Innovative High-Throughput Tissue Engineering Strategies for Better Understanding and Optimizing Biomaterial/Cell Interactions Rui Reis, Portugal Session Chair: Hwa Liang Leo, Singapore						
1100 - 1130		1100-1200 IFMBE Industry Working-Group Meeting		1100-1200 Incoming IAMBE	Plenary Lecture 6 (SEAFOMP John Cameron Memorial Lecture): Photon-counting-detector CT Technology and Clinical Applications Cynthia H. McCollough, USA Session Chairs: Kwan Hoong Ng, Malaysia James Lee, Singapore							
1130 - 1200					Special Symposium 27 Engineering Biology for Sustainability Session Chairs: Chueh Loo Poh, Singapore Chris Reynolds, UK 811: Tom Knights, USA*							
1200 - 1230					1200-1330 IOMP-IAEA-ICRP- WHO Lunch Lunch Symposium Satellite: The Purposeful Department with Elekta Harmony: Connected, Efficient and Clinically Versatile Hande Ayata, Istanbul (Sponsored by Elekta)							
1230 - 1300							Lunch Break, Exhibition and Poster Viewing Cassia Main Ballroom, Level 3					
1300 - 1330												
1330 - 1500		1330-1500 IFMBE Health Informatics and eHealth WG Meeting		1300-1500 IPEM International Information and Networking Session		IOMP Awardee Presentation Session Chair: Madan Rehani, USA Eva Bezak, Australia 1. M Curie Award - Ehsan Samei, USA 2. Harold Johns Medal - George Starkschall, USA (RL)	Education Session 10 Clinical Engineers Advocating for Single Global Nomenclature Session Chairs: Ernesto Iadanza, Italy Tom Judd, USA (RL) 1. Ernesto Iadanza, Italy 2. Maurice Page, France 3. Julie Polisena, Canada 4. Fred Hosea, Ecuador 5. Murilo Contó, Brazil (RL) 6. Marjan Yazdanpanah, Canada (PR)	Special Symposium 28 Frontiers of Multifunctional Biomedical Ultrasound Technologies Session Chairs: Chih-Chung Huang, China Hairong Zheng, China 239: Hairong Zheng, China* 392: Xue Feng, China 214: Qifa Zhou, USA 129: Sihua Yang, China 132: Fei Li, China	Special Symposium 29 Diagnostic Reference Levels Session Chairs: Laurentia Ariany, Singapore Anchal Krisanachinda, Thailand 131: Colin John Martin, UK* (RL) 315: Sue Eadyean, UK (RL) 200: John Damilakis, Greece 146: Kalpana Kamal, USA 141: Richard Campbell Smart, Australia (RL)	Special Symposium 30 AI in Radiotherapy Session Chairs: Xing Lei, USA Wilbur Fum, Singapore 127: Xing Lei, USA* 504: Cythnia Chuang 501: Steve Jiang, USA 537: Xiaomeng Li, Hong Kong (RL)	Oral Session 3.2 Radiation Therapy Physics Session Chairs: Roger Soh, Singapore Yun Inn Tan, Singapore 259: Scott Crowe, Australia 624: Christoph Jan Trauernicht, South Africa 372: Scott Crowe, Australia 599: Yen Hwa Lin, Singapore 605: Hafiz Zin, Malaysia 822: Shradha Srivastava, India	Oral Session 3.3 Bio-Micro/Nanotechnologies Session Chairs: Jiawei Wu, Singapore Li Yi Tan, Singapore 773: Rashid Bashir, USA* (RL) 362: Huanwen Mu, Singapore (PR) 391: Xinwen Miao, Singapore (PR) 394: Jiawei Wu, Singapore 547: Li Yi Tan, Singapore
1500 - 1530						Coffee Break, Exhibition and Poster Viewing Cassia Main Ballroom, Level 3	Coffee Break, Exhibition and Poster Viewing Cassia Main Ballroom, Level 3					
1530 - 1700		1530-1630 IOMP Awards and Honours Committee Meeting	1530-1700 Medical Physics for World Benefits Get Together			IUPESM Awardee Oral Presentation Session Chair: Leandro Pecchia, UK 1. James Goh, Singapore (BME) 2. Xie George Xu, China (MP)	Special Symposium 31 Ethical Issues in Biomedical Engineering Session Chair: Subrata Saha, USA 462: Subrata Saha, USA 544: Richard Wilson, USA (RL) 516: Wade L. Robison, USA (RL) 560: Arthur J. Coury, USA 586: David Steven Dinhofer, USA (RL)	Oral Session 3.4 Radiobiology Session Chair: Michael Mazonakis, Greece 637: David Steven Dinhofer, USA (RL) 582: Noor Nabilah Talik Sisin, Malaysia (RL) 589: Rebecca Anne D'Alonzo, Australia (PR) 106: Michael Mazonakis, Greece	Special Symposium 32 Advances and Current Trends in Hybrid PET Imaging Session Chairs: S Somanesan, Singapore Mun Kwok Yew, Singapore 153: Habib Zaidi, Switzerland* 559: S Somanesan, Singapore 532: Chai Hong Yeong, Malaysia 563: Kitiwat Khamwan, Thailand 182: Krisanant Chuamsaamarkkee, Thailand	Oral Session 3.5 Diagnostic and Interventional Radiology Physics Session Chairs: Wilbur Fum, Singapore Poh Wee Tan, Singapore 284: Nabeel Ibrahim Ashour, Malaysia (PR) 426: Pohchoo Seow, Singapore (PR) 679: Koon Liang Chia, Singapore 667: Mohamed Khalidoun Badawy, Australia 708: Yen Hwa Lin, Singapore 448: Luca Gentile, Italy	Oral Session 3.6 Radiation Therapy Physics Session Chairs: Roger Soh, Singapore Yun Inn Tan, Singapore 018: Natalka Suchowerska* (RL) 657: Jun Hao Phua, Singapore 528: Yun Ming Wong, Singapore 105: Mehran Miron Zaini, USA 506: Yutong Zhao, Australia (PR)	Oral Session 3.7 Bio-Micro/Nanotechnologies Session Chairs: Andy Kah Ping Tay, Singapore Mengya Kong, Singapore 759: Mengya Kong, Singapore 157: Andy Kah Ping Tay, Singapore 585: Lingyan Gong, Singapore 631: Hong Boon Ong, Singapore 651: Amirah Jamil, Malaysia 653: Sheng Yuan Leong, Singapore
1700 - 1830						1730-1945 IFMBE General Assembly	Special Symposium 33 Science Diplomacy for Future Advancement in Medical Physics Session Chairs: Eva Bezak, Australia Magdalena Stoeva, Bulgaria 010: Eva Bezak, Australia 696: Angela Keyser, USA (PR) 389: Nupur Karmaker, Bangladesh (RL) 001: Loredana Marcu, Romania (RL) 006: Chai Hong Yeong, Malaysia 296: Cari Borrás, USA	Special Symposium 34 Digital Transformation and Artificial Intelligence: Data Driven Decision Making for the Care and Health of the Future Session Chairs: Giuseppe Fico, Spain Maria Fernanda, Spain 1. Giuseppe Fico, Spain 2. Maria Fernanda, Spain 3. Alessio Lucchi, Italy 4. Beatriz Patricia, Portugal 5. Leandro Pecchia, UK	Special Symposium 35 Are Many Patients Getting High Doses Over 100 mSv and What Can Be Done? [IOMP-IAEA-WHO- DITTA] Session Chairs: Madan Rehani, USA Mun Kwok Yew, Singapore 005: Madan Rehani, USA* 005: Jenia Vassileva, Austria 005: Emilie Van Deventer, Switzerland 005: Franco Ruppich, USA	Oral Session 3.8 Nuclear Medicine and Molecular Imaging Physics Session Chairs: Wilbur Fum, Singapore Poh Wee Tan, Singapore 707: Aik Hao Ng, Malaysia 205: Ashleigh Hull, Australia 612: Asseel Hisham Alregib, Malaysia 564: Young Soon Tay, Singapore	Oral Session 3.9 Radiation Therapy Physics Session Chairs: Roger Soh, Singapore Yun Inn Tan, Singapore 529: Hong Qi Tan, Singapore 351: Subramani Vellaiyan, India 536: Kah Seng Lew, Singapore 600: Li Ting Chan, Singapore 322: Pradip Deb, Australia (PR) 395: Tanya Kairn, Australia (PR)	Oral Session 3.10 Bio-Micro/Nanotechnologies Session Chairs: James Sherrill, USA Justin John Cooper-White, Australia 643: Justin John Cooper-White, Australia* 668: Linwei He, Singapore 465: Norihisa Miki, Japan 780: Aja Corinne Corcuera Abela, Philippines (PR) 775: James Sherrill, USA
2030 - 2230					Full Virtual 2000-2230 IOMP Council 1 + IOMP General Assembly + IOMP Council 2	IFMBE Presidential & CoS Reception By Invitation only						

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Wednesday, 15 Jun 2022												
0730 onwards												
0800 - 0830												
0830 - 1000		0800-0900 IFMBE In-coming Officers' 0900-1030 IFMBE In-coming AC				0900-1000 IFMBE Meet the Editor Sessions MBEC + Health & Tech	Education Session 11 IFMBE CED and the Global CE Community Perspectives on Digital Health Session Chairs: Elliot Sloane, USA Yunkap Kwankam, Portugal	Special Symposium 36 Gradient Hydrogel Systems for Studying Cell-matrix Interactions Session Chairs: Jennifer Young, Singapore Daniel Heath, Australia	Special Symposium 37 Integrated Microscale Tools for Healthcare Session Chairs: Bee Luan Khoo, Hong Kong Xiaogang Liu, Singapore	Special Symposium 38 Global Experience and Contributions of MPs and BMEs During the COVID-19 Pandemic Session Chairs: Magdalena Stoeva, Bulgaria Kwan Hoong Ng, Malaysia	Education Session 12 The Clinical Implementation of the Elekta Unity MR-Linac: A Medical Physics Perspective (Elekta) Session Chair: Benn Perkins	Education Session 13 19th ACOM Course: Shielding Techniques for Radiation Oncology Facilities Session Chair: Wendy Chow, Singapore
1000 - 1030						Coffee Break, Exhibition and Poster Viewing Cassia Main Ballroom, Level 3						
1030 - 1200		1030-1130 IFMBE In-coming Clinical Engineering Division 1130-1230 IFMBE In-coming Healthcare Technology Assessment Division		1030-1200 IFMBE Women in BME Meeting	1030-1130 IOMP Public 1&2	IFMBE Scientific Challenge 2022 Session Chairs: Maria Fernanda Cabrera-Umpierrez, Spain Paulo Carvalho, Portugal	Education Session 14 Clinical Engineers and Medical Physicists Partnership for Improved Health Outcomes Session Chairs: Cari Borrás, USA Mario Forjaz Secca, Mozambique	Special Symposium 39 Medical Physics Challenges in the Middle East Region Session Chair: Huda AlNaemi, Qatar Hong Jin Toh, Singapore	Special Symposium 40 IUPESM MEP Workshop: Aspects of Collaboration and Cooperation in Medical Physics and Biomedical Engineering Session Chairs: Magdalena Stoeva, Bulgaria Kang-Ping Lin, Taiwan	Oral Session 4.1 Radiation Therapy Physics Session Chairs: Rachel Lin, Singapore Jun Hao Phua, Singapore	Oral Session 4.2 BioRobotics and Medical Devices Session Chairs: Daniele Savogin, Japan Paron Daotthong, Thailand	Oral Session 4.3 Neuroengineering/Neurotechnology Session Chairs: Gema Vera, UK Javier Gomez-Pilar, Spain
1200 - 1230						Lunch Symposium Satellite: Session Chair: Gordon Xiong, Singapore						
1230 - 1300					1200-1330 IOMP-AAAPM Lunch	Revolutions in Healthcare with Digital Health Technologies 1. Rex Tan, Singapore 2. Shaun Rossiter, Australia 3. Arifin Kawaja, Singapore 4. Yen Ngoc Nguyen, Mabel, Singapore (Sponsored by HealthTEC)						
1300 - 1330						Lunch Break, Exhibition and Poster Viewing Cassia Main Ballroom, Level 3						
1330 - 1500			1330 - 1430 BES Scientific Meeting Award Ceremony (By Invitation only)		SEAFOMP Council Meeting (By Invitation only)	WIMBE Video Clip Contest: Inspiring Women in Biomedical Engineering Session Chair: Lenka Lhotska, Czech Republic Martha Zequera, Colombia	Education Session 15 The Biomedical Engineering Role in the Fight Against COVID-19 in Africa: Learning from Experiences Session Chair: Ashenafi Hussein Ababu, Ethiopia	Special Symposium 41 Role of South Asia Centre for Medical Physics and Cancer Research for Education and Training of Medical Physicists in South Asia Region (Part 1) Session Chairs: Hasin Anupama Azhari, Bangladesh Golam Abu Zakaria, Germany	Special Symposium 42 Advances in Particle Therapy (Part 1) Session Chairs: Indra J. Das, USA Zubin Russy Master, Singapore	Oral Session 4.4 Computational Modelling and Simulation Session Chairs: Melvin Chew, Singapore Calvin Koh, Singapore	Oral Session 4.5 BioRobotics and Medical Devices Session Chairs: Jan Havlik, Czech Republic I-ruk Chanmanachareon, Thailand	Oral Session 4.6 Neuroengineering/Neurotechnology Session Chairs: Stina Matilda, Sweden Teresa Nordin, Sweden
1500 - 1530						Coffee Break, Exhibition and Poster Viewing Cassia Main Ballroom, Level 3						
1530 - 1600						Plenary Lecture 7 Ten Grand Challenges of Robotics Guang Zhong Yang, China (RL) Session Chair: Raye Yeow, Singapore						
1600 - 1630						Plenary Lecture 8 Are We Ready for a Renaissance in Physics and Engineering in Medicine? Kwan Hoong Ng, Malaysia Session Chair: S. Somanesan, Singapore						
1630 - 1800						IUPESM General Assembly	Special Symposium 43 Innovation and Development of Traditional Chinese Medicine Engineering Session Chair: Chengyu Liu, China Bin Xiao, China	Special Symposium 44 Role of South Asia Centre for Medical Physics and Cancer Research for Education and Training of Medical Physicists in South Asia Region (Part 2) Session Chairs: Hasin Anupama Azhari, Bangladesh Golam Abu Zakaria, Germany	Special Symposium 45 Advances in Particle Therapy (Part 2) Session Chair: Zubin Russy Master, Singapore Park, Sung Yong, Singapore	Oral Session 4.7 Computational Modelling and Simulation Session Chairs: Melvin Chew, Singapore Calvin Koh, Singapore	Oral Session 4.8 Radiation Dosimetry Session Chairs: Khong Wei Ang, Singapore Glen Mok, Singapore	Oral Session 4.9 Patient Safety and Radiation Protection (General) Session Chairs: Wendy Chow, Singapore Eric Lee, Singapore
1900-2100					IOMP Presidential Dinner (By Invitation)							

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Thursday, 16 Jun 2022													
0730 onwards							Registration Cassia Main Ballroom, Level 3						
0830 - 1000		0830-0930 IFMBE Engineering Biology Working Group Meeting			0900-1030 IOMP Executive Committee Meeting + Company Meeting 2	IFMBE Asian-Pacific Research Network Scientific Paper Presentations Session Chair: Ichiro Sakuma, Japan 1. Han Wei Hou, Singapore 2. Chia-Yen Lee, Taiwan (RL) 3. Fang Chen, China (RL) Discussion	Education Session 16 Teaching Biomedical Engineering Courses in Latin America during the COVID-19 Pandemic Session Chairs: Eric Laciár Leber, Argentina Martha Zequera, Colombia 1. Luis Roberto Barriere, El Salvador 2. Ernesto Ibarra, Panama 3. Martha Zequera, Colombia 4. Adriano Andrade, Brazil 5. Eric Laciár Leber, Argentina	Oral Session 5.1 Biomedicine and BioSignals Session Chairs: Regina Oliveira, Portugal Ana Luisa Silva, Portugal 311: Regina Oliveira, Portugal 320: Ana Luisa Silva, Portugal 321: Ana Luisa Silva, Portugal 121: Durmus Umutcan Uguz, Germany 122: Jöran Riken, Germany 253: Tanaka Toshiyuki, Japan 430: Havlik Jan, Czech Republic	Oral Session 5.2 Healthcare Analytics, Big Data and AI Session Chairs: Nour Aldeen Jalal, Germany Samuel Ruizperez-Campillo, USA 300: Nour Aldeen Jalal, Germany 161: Samuel Ruizperez-Campillo, USA 436: Ning Ding, Germany 658: Micaela Moretini, Italy	Oral Session 5.3 Medical Physics and Biomedical Engineering Education, Training and Professional Development Session Chairs: Poh Choo Seow, Singapore Glen Mok, Singapore 254: Humayra Ferdous, Bangladesh 192: Massimo Arlaud, Italy 441: Luca Gentile, Italy 723: R. Shane Barton, USA (RL) 267: Simona Pascucci, Italy (PR) 555: Slavik Tabakov, UK (RL)	Oral Session 5.4 Innovations in Medical Physics Session Chairs: Hong Qi Tan, Singapore Roger Soh, Singapore 250: Alexandra Bourgouin, Germany 575: Scott Sigao Hsieh, USA 761: Omar Jacinto Escalona, UK (RL) 444: Somayeh Saghmanesh, Switzerland (PR) 328: Mahadevappa Mahesh, USA 737: Didik Rahmadi, Indonesia (PR) 807: Syed Bilal Ahmad, Canada (RL)	Education Session 17 Advances in Proton Therapy with the Varian ProBeam System Session Chair: Nastik Bhandari 1. Joerg Rottmann, Singapore 2. James W. Snider, USA	
1000 - 1030						Coffee Break, Exhibition and Poster Viewing Cassia Main Ballroom, Level 3	Coffee Break, Exhibition and Poster Viewing Cassia Main Ballroom, Level 3						
1030 - 1200		1000-1100 IFMBE Bioethics Committee Meeting 1100-1200 IFMBE Asian-Pacific Working Group Meeting	1000-1100 Joint Meeting of IFMBE Publication Committee & Publicity Committee			IFMBE Special Session of Sustainable Development Goals in Health Care Session Chair: Shankar Krishnan, USA 1. Shankar Krishnan, USA 2. Chwee Teck Lim, Singapore 3. Ratko Magjarevic, Croatia 4. Speaker from Latin America Panel Discussion	Education Session 18 Critical Role of Clinical Engineers during COVID-19: Lessons Learned for the International Community Session Chairs: Tom Judd, USA (RL) Elliot Sloane, USA (RL) 1. Tom Judd, USA 2. Elliot Sloane, USA 3. Jitendra Sharma, India (PR) 4. Stefano Bergamasco, Italy (PR) 5. Rossana Rivas, Peru (PR) 6. Ashenafi Hussein Ababu, Ethiopia	Oral Session 5.5 Biomedicine and BioSignals Session Chairs: Florian Voss, Germany Idoia Badiola, Germany 228: Florian Voss, Germany 270: Idoia Badiola, Germany 452: Branislav Gaspar, Czech Republic 457: Gaspar Branislav, Czech Republic 574: Abraham Otero, Spain 789: Anwar Khan, Republic of Korea 406: Samaei Saeed, Poland (PR)	Special Symposium 46 2022 - International Year of Basic Sciences for Sustainable Development Session Chairs: Mathieu Denis (ISC) John Damlakis, Greece 011: John Damlakis, Greece 012: Magdalena Stoeva, Bulgaria Mathieu Denis (ISC) 013: Simone Kudulovic Renha, Brazil 007: Chai Hong Yeong, Malaysia 014: Francis Hasford, Africa	Oral Session 5.6 Medical Physics and Biomedical Engineering Education, Training and Professional Development Session Chairs: Poh Choo Seow, Singapore Glen Mok, Singapore 160: Giorgia Loret, Austria 562: Cheryl PL Lian, Singapore 748: Ahmad Taufek Abdul Rahman, Malaysia 530: Iyobosa B. Uwadiae, Nigeria (PR) 845: Xiaojuan Khoo, Singapore	Oral Session 5.7 Innovations in Medical Physics Session Chairs: Hong Qi Tan, Singapore Roger Soh, Singapore 632: Arij Naufal, Indonesia 524: Christian Velten, USA 460: Andrea Abril, Colombia 686: Hafiz Zin, Malaysia 812: Nabil Maale, United Arab Emirates 816: Christian Popotte, France 835: Jaydev Kardam Dave, USA	Education Session 19 The Good, The Bad, and The Unknown: How IR4.0 Affects Healthcare Session Chair: Eric Woo, Malaysia 1. Eric Woo, Malaysia 2. Dharmesh Doshi, Malaysia 3. Stella Cheong, Malaysia	
1200 - 1330					1200-1330 Executive Committee of IUPESM, IFMBE and IOMP Working Lunch	Lunch Break, Exhibition and Poster Viewing Cassia Main Ballroom, Level 3	Education Session 20 Student-Industry Lunch Session Chairs: Raye Yeow, Singapore Martha Lucia Zequera Diaz, Colombia 1. Genevieve Khoo, SG Innovate 2. Paula Lam, CellVec 3. Hagen, Siemens Healthineers 4. Jack Wong, ARPA 5. Joshua, MedTech Actuator 6. Moses, Bes Technology	Lunch Break, Exhibition and Poster Viewing Cassia Main Ballroom, Level 3					
1330 - 1500			IUPESM Incoming AC 2			Oral Session 5.8 Biomaterials and Regenerative Medicine Session Chairs: Dietmar W Huttmacher, Australia Tram Thuy Dang, Singapore 512: Dietmar W Huttmacher, Australia* 374: Tram Thuy Dang, Singapore 745: Chengchong Ai, Singapore 766: Wilson Soh, Singapore 749: Imai Shinya, Japan	Oral Session 5.9 Health Technology Assessment Session Chairs: Ernesto Iadanza, Italy Nicolas Pallikarakis, Greece 450: Ernesto Iadanza, Italy 502: Nicolas Pallikarakis, Greece 178: Simone Spagnesi, Italy (RL) 734: Stefania Manetti, Italy (RL) 736: Stefania Manetti, Italy (RL) 744: Ringo Tanglong Zhu, Hong Kong (RL) 827: Phunsuk Kantha, Taiwan	Oral Session 5.10 Biomedicine and BioSignals Session Chairs: Joan Lambert Cause, Cuba Bernhard Laufer, Germany 294: Joan Lambert Cause, Cuba 403: Bernhard Laufer, Germany 556: Laura Burattini, Italy 610: Laura Burattini, Italy 664: Martha Lucia Zequera Diaz, Colombia 670: Lalithkumar Seenivasan, Singapore	Oral Session 5.11 Healthcare Analytics, Big Data and AI Session Chairs: Nour Aldeen Jalal, Germany Yasuhiro Omiya, Japa 280: Muhammad Salman Haleem, UK 364: Nour Aldeen Jalal, Germany 130: Yasuhiro Omiya, Japan 710: Krunoslav Jurčić, Croatia 767: Yong Zhao, Singapore 644: Dominik Stanojevic, Singapore 602: Mitsuru Yuba, Japan	Oral Session 5.12 Computational Modelling and Simulation Session Chairs: Mina Niazi, Singapore Jack Abraham Wilkie, Germany 597: Xiao Yun Xu, UK* (PR) 226: Mina Niazi, Singapore 417: Jack Abraham Wilkie, Germany 719: Jack Abraham Wilkie, Germany 231: Yinling Zhu, Malaysia	Special Symposium 47 The Impact of COVID Pandemic on Gender-related Home Office in STEM Fields Session Chairs: Eva Bezak, Australia Lenka Lhotska, Czech Republic 144: Monique Frize, Canada (RL) 325: Eva Bezak, Australia 519: Jeannie Wong, Malaysia (RL) 363: Alessia Maccaro, UK (PR) 625: Lenka Lhotska, Czech Republic Discussion	Oral Session 5.13 Biomaterials and Regenerative Medicine Session Chairs: Andri K Riau, Singapore Andre Ang, Singapore 809: Andri K Riau, Singapore 825: Andre Ang, Singapore 837: Giorgio Andrew Katsifis, Australia 838: Xuan Hao Tan, Singapore 326: Desmond Y.R. Chong, Singapore 774: Tarwala Rupesh, USA (RL)	
1500 - 1530						Coffee Break, Exhibition and Poster Viewing Cassia Main Ballroom, Level 3	Coffee Break, Exhibition and Poster Viewing Cassia Main Ballroom, Level 3						
1530 - 1700			1530-1630 IUPESM CCC Meeting	1600-1700 Industry Job Opportunities for Students (Organized by IFMBE Students & Recent Graduates Working Group) Session Chair: Martha Zequera, Colombia and Jary Hyttinen, Finland		1530-1630 IAMB Early Career Award Symposium Presentations Session Chairs: Peter Niederer Metin Akay, USA 1. Han Wei Hou, Singapore 2. Wei Gao, USA	Oral Session 5.14 Health Technology Assessment Session Chair: Alessio Luschi, Italy 711: Sarah Rodrigues, Brazil (RL) 729: Sarah Rodrigues, Brazil (RL) 293: Davide Piaggio, UK (PR) 305: Martina andellini, Italy (PR) 193: Alessio Luschi, Italy 194: Alessio Luschi, Italy	Oral Session 5.15 Biomedicine and BioSignals Session Chairs: Sota Morita, Japan Ahn Joongho, Republic of Korea 310: Sota Morita, Japan 369: Ryohei Tsuji, Japan 683: Marta Carrara, Italy (RL) 456: Henrique Nuno Silva, Portugal (RL) 733: Henrique Nuno Silva, Portugal (RL) 798: Ahn Joongho, Republic of Korea	Oral Session 5.16 Healthcare Analytics, Big Data and AI Session Chairs: Jonathan Mark Cooper, UK Max Haberbush, Austria 800: Jonathan Mark Cooper, UK* 346: Shangjie Zou, Hong Kong (RL) 255: Mitsuhiko Ogawa, Japan (RL) 282: Max Haberbush, Austria 552: Pun Liang Thon, Malaysia (RL)	Oral Session 5.17 Computational Modelling and Simulation Session Chairs: Saha Subrata, India Abdul Mohizin Abdul Majeed, Republic of Korea 718: Aleksandra Zienkiewicz, Finland (RL) 770: Saha Subrata, India (RL) 184: Swati Sharma, Singapore (PR) 820: Abdul Mohizin Abdul Majeed, Republic of Korea	Special Symposium 48 Grant Writing and Publishing in Today's Competitive World Session Chairs: Loredana Marcu, Romania Lenka Lhotska, Czech Republic 309: Iuliana Toma-Dasu, Sweden* 173: Loredana Marcu, Romania (RL) 414: Lenka Lhotska, Czech Republic 549: Paul Keall, Australia	Oral Session 5.18 Biomaterials and Regenerative Medicine Session Chair: Chantelle Spiteri, UK Zeus Yiwei Lim, Singapore 690: Samitier Marti Josep, Spain* (RL) 716: Emily Jayne Powell, UK 720: Mohamed Hesham Hassan, UK 721: Omar Abdalla Mohamed, UK 257: Chantelle Spiteri, UK 227: Zeus Yiwei Lim, Singapore	
1700-1730						1630-1730 WC2022 Closing Ceremony							
1930-2100						WC2022 Congress Dinner and Awards Ceremony Heliconia Main Ballroom, Level 3 (1) IFMBE Young Investigators Awards (2) IFMBE Scientific Challenge (3) IFMBE Toh Siew Lok BME Student Design Award (4) IFMBE WIMBE Video Clip Contest (5) IOMP Best Presentation Award (6) Presentation of WC2025							

Venue	Off-site Event Venue	Heliconia Junior 3413	Heliconia Junior 3513	Heliconia Junior 3411	Heliconia Junior 3511	Heliconia Main Ballroom	Hibiscus 3602	Hibiscus 3604	Hibiscus 3606	Hibiscus 3702	Hibiscus 3704	Hibiscus 3706															
Friday, 17 Jun 2022																											
Fully Virtual. Kindly note that there will be NO ACTIVITIES at Marina Bay Sands Singapore.																											
							Track 1		Track 2		Track 3																
0830 - 1000							Oral Session 6.1 Session Chairs: Amir Hashemi, Czech Republic (RL) Xiao Yang, Hong Kong (RL) BioMechanics and Mechanobiology 115: Callum John Thornton, UK (PR) 755: Jiwon Kim, Republic of Korea (PR) 243: Xueying Zhong, Singapore (PR) Biomaterials and Regenerative Medicine 539: Amir Hashemi, Czech Republic (RL) 588: Xiao Yang, Hong Kong (RL) 742: Sierin Lim, Singapore (RL)	Oral Session 6.2 Healthcare Analytics, Big Data and AI Session Chair: TBA 235: Iyabosola Busola Oronti, UK (PR) 154: Fang Chen, China (PR) 463: Ming Cih Yang, Taiwan (PR) 433: Francesco Goretti, Italy (PR) 702: Francesco Goretti, Italy (PR) 652: Aiqi Liu, Singapore (PR)	Oral Session 6.3 Multidisciplinary Medical Physics Session Chairs: Young Soon Tay, Singapore Laurentia Ariany, Singapore 124: Li Xiao, Hong Kong (PR) 404: Tanya Kairn, Australia (PR) 174: Mitchell Ryan Herrick, Australia (PR) 183: Akihiro Kuwahata, Japan (PR)																		
1000 - 1030												Intermission															
1030 - 1200																	Oral Session 6.4 Clinical Engineering Session Chairs: Alessandra Ancora, Italy (RL) Tuuli Uudeberg, Estonia (RL) 223: Davide Piaggio, UK (PR) 410: Alex Quok An Teo, Singapore (PR) 701: Wenqi Shi, USA (PR) 466: Fred Hosea, Ecuador (PR) 177: Alessandra Ancora, Italy (RL) 527: Tuuli Uudeberg, Estonia (RL)	Oral Session 6.5 Healthcare Analytics, Big Data and AI Session Chairs: TBA 550: Yosuke Sasaki, Japan (PR) 554: Zhixian Huang, Japan (PR) 627: Gabriela M. Ruiz-Soto, Mexico (PR) 724: Felipe Giuste, USA (PR) 607: Takaharu Yamazaki, Japan (PR)	Oral Session 6.6 Medical Physics and Biomedical Engineering Education, Training and Professional Development Session Chairs: Young Soon Tay, Singapore Laurentia Ariany, Singapore 558: Slavik Tabakov, UK (RL) 577: Slavik Tabakov, UK (RL) 578: Slavik Tabakov, UK (RL) 638: Emily May Simpson-Page, Australia (RL) 669: Ignatius Komakech, Uganda (RL)								
1200 - 1330																						Intermission					
1330 - 1500																											Oral Session 6.7 BiImaging and BioSignals Session Chairs: TBA 150: Ryuki Nakagawa, Japan (PR) 249: Miyu Yamada, Japan (PR) 164: Shunqi Zhang, China (PR) 672: Prihadin Oktivasari, Indonesia (PR) 434: Ryosuke Morimoto, Japan (PR)
1500 - 1530																											Intermission
1530 - 1700																											Oral Session 6.10 Session Chairs: Omar Jacinto Escalona, UK (RL) Tae-Min Jang, Republic of Korea (RL) Bioelectronics and Electroceuticals 741: Omar Jacinto Escalona, UK (RL) BioRobotics and Medical Devices 167: Jian Huang, Japan (PR) 776: Rainier Florentin Natividad, Singapore (PR)

Programme is subjected to change without prior notice.