



# CONGRESO COLOMBIANO DE BIOINGENIERIA E INGENIERIA BIOMEDICA

Aplicaciones de la Ingeniería Biomédica en condiciones atípicas y extremas

Tecnologías biomédicas en el control de la salud ambiental y humana

La bioingeniería en los procesos biológicos y agropecuarios



Cali, Colombia  
Noviembre 22 al 24 de 2023

Time	21nd Thuesday	22nd Wednesday	23rd Thursday	24th Friday
7 - 8 am	Actividades Precongreso	Registration	Registration	
8 - 9 am		<b>Opening Ceremony</b> <b>Dr. Mario Vargas Ph.d. Associate Fellow of the AIAA</b> <i>American Institute of Aeronautic and Astronautic, retired from NASA after 35 years' career as a research scientist</i> <b>Dr. Isnarado Torres</b> president of ABIION and President and Chair of conference CCBIO-AMED 2023 <b>Prof. Ratko Magjarevic, Phd. President of IFMBE,</b> <b>Dr. Jesus F. Dominguez,</b> CEO Chief Executive Officer MEDICAL TECH. <b>Prof. Dr. Jhon Bustamante, Md., Cardiólogo , Phd,</b> Vicepresident ABIION, Vice President Conferencia CCBIO- MED 2023 <b>Prof. Dra. Martha Zequera, Phd.,</b> Vice-President of scientific and international relations	<b>Panel - IFMBE - Education in BME session: Education in Biomedical Engineering for Students.</b> Chair: Prof. Martha Zequera. Pontificia Universidad Javeriana. IFMBE Chair Education & Accreditation Committee and Students and Recent Graduates Working Group. Pontificia Universidad Javeriana. Special guest: Prof. Ratko Magjarevic. President, IFMBE. Prof. Shankar Krishnan, Vice-President, IUPESM. USA. Mentor S&RG-WG. International students invited: Mateo Valverde, member of IFMBE S&RG-WG ECUADOR. Leslie Cieza, member of IFMBE S&RG-WG. PERU. Julio Enrique Amaya Roque, member of IFMBE S&RG-WG El Salvador. Krunoslav Jurčić (Croatia), PhD Student at University of Zagreb. Ana Paula Medina Bustamante. San Marcos University, PERU. Invited Students from <b>America Latina (hybrid session)</b>	VISITA A JARDINES O SENDEROS ECOLOGICOS DE CALI ( OPCIONAL)
9 - 10 am	REGISTRO	Keynote lecture by Prof. dr. Ratko Magjarević, President of International Federation on Medical and Biological Engineering (IFMBE). <b>Development of New Medical Technologies and Improving the Quality of Healthcare.</b>	MASTER CONFERENCE 7: Keynote: Prof. Alvaro Rios Poveda <b>"Bionics: Mastering innovation, Confronting Extinction"</b> AUDITORIUM MEETING ROOM VERDE ARENA-CALI CONVENTION CENTER, COLOMBIA	
10 - 11 am	REGISTRO	<b>Panel - IFMBE - International BME Education session: Education in Biomedical Engineering for professionals.</b> Chair: Prof. Martha Zequera. Pontificia Universidad Javeriana. IFMBE Chair Education & Accreditation Committee. Invited guest: Theme Global Dimensions in Education in Biomedical Engineering and Bioengineering. Prof. Ratko Magjarevic. President of IFMBE. Professor Shankar Krishnan, IUPESM Vice-president USA. Mentor S&RGWG. Prof. Xian Pin Lin Vice-president IFMBE Chungyuan University Taiwan. Professor Piotr Ladzynski, IFMBE Chair of Industry Committee	<b>Panel - IFMBE - INDUSTRY session: The Transformative Digitalization in Healthcare Environment.</b> Chair: Prof. Piotr Ladzynski. IFMBE, Chair Industry Committee. Institute of Bio cybernetics and Biomedical Engineering, Poland. Special guest: Prof. Ratko Magjarevic, President IFMBE, Vice-President, IUPESM. University of Zagreb, Croatia. Special guests from industry: Doctor Jesus Fernando Dominguez, Director MEDICALTECH - EXPO. Dra Carolina Salazar, coordinadora extension ingenieria CES, Representante ABIION ante INVIMA, sala de dispositivos médicos Mr. Yelson Estiven Luna Zuluaga (Colombia), Profession: Electronics Engineer, Digital & Automation Professional Trainee at Siemens Healthines. Mibicol S.A.S Minerva Medical S.A.S. Clic Medical S.A.S. ( Hybrid session)	
11 - 12 am	REGISTRO	PONENCIAS DE MAESTRIA Y DOCTORADO AUDITORIUM MEETING ROOM VERDE ARENA-CALI CONVENTION CENTER, COLOMBIA,	PONENCIAS DE MAESTRIA Y DOCTORADO AUDITORIUM MEETING ROOM VERDE ARENA-CALI CONVENTION CENTER, COLOMBIA,	
12 - 1 pm		SEMILLEROS DE INVESTIGACION	SEMILLEROS DE INVESTIGACION	
1 - 2 pm	PONENCIAS VIRTUALES - MODALIDAD LINK	Almuerzo Libre - Centro de Convenciones Verde Arena	Almuerzo Libre - Centro de Convenciones Verde Arena	
2 - 3:00 pm	PRELIMINARES - MASTER CONFERENCES Dr. Isnarado Torres <b>"Overview about Bioengineering and Biomedical Engineering program at Colombia 1989-2023"</b> AUDITORIUM MEETING ROOM VERDE ARENA-CALI CONVENTION CENTER, COLOMBIA	MASTER CONFERENCE 4 <b>"The most promising emerging technologies for future biomedical products and services"</b> Keynote: Professor Piotr Ladzynski IFMBE CHAIR INDUSTRY OF COMMITTEE POLAND" AUDITORIUM MEETING ROOM VERDE ARENA-CALI CONVENTION CENTER, COLOMBIA	<b>PANEL educations in biomedical engineering for directors of biomedical and bioengineering programs</b> Prof. John Bustamante, PhD, Cardiólogo, UPB; PROF CAROLINA CASTAÑO, Ing. Biomedica, ABIION, universidad EIA	PLAN TURISTICO ACUATICOP (OPCIONAL)
3:00 - 4:00 pm	"MAGISTRAL CONFERENCE 1 <b>"Population Healthcare Effects from a Widening Digital Divide."</b> Prof. Luis Kun, Luis Kun, Ph.D FAIMBE, Life Fellow IEEE, FIAMBE, FIUPESM, President IEEE SSI, & EMBS ADCOM. AUDITORIUM MEETING ROOM VERDE ARENA-CALI CONVENTION CENTER, COLOMBIA "	MASTER CONFERENCE 5 Keynote: Prof. Jorge Quintero <b>"Desarrollo de una neuroprotesis de estimulación eléctrica funcional para la rehabilitación del pie caído"</b> AUDITORIO SALA DE REUNION CENTRO CONVENCIONES VERDE ARENA-CALI, COLOMBIA	MASTER CONFERENCE 8: <b>"Cybersecurity Challenges and opportunities for health services ( Per confirm)"</b> Prof. Professor Shankar Krishnan, IUPESM honorary president ifmbe USA. Mentor S&RGWG. AUDITORIUM MEETING ROOM VERDE ARENA-CALI CONVENTION CENTER, COLOMBIA	
4.00 - 5:00 pm	MASTER CONFERENCE 2 <b>"Use of biomedical sensors for emotion recognition"</b> Dr. Sonia Contreras. MEETING ROOM VIRTUAL ACTIVITY VERDE ARENA-CALI CONVENTION CENTER, COLOMBIA"	PONENCIAS DE MAESTRIA Y DOCTORADO AUDITORIUM MEETING ROOM VERDE ARENA-CALI CONVENTION CENTER, COLOMBIA,	MASTER CONFERENCE 9 <b>" Cardiovascular engineering"</b> Prof. Dr. John Bustamante. Pontifical Bolivarian University, Medellín Colombia. AUDITORIUM MEETING ROOM VERDE ARENA-CALI CONVENTION CENTER, COLOMBIA	
5.00 - 5:30 pm		COFFEE BREAK	COFFEE BREAK	
5:30 - 6:30 pm	MASTERKEYBOARD 3: <b>"Transforming Healthcare into a Wellness Centric System Using Genetics and Geomedicine"</b> Prof. Luis Kun, Luis Kun, Ph.D., FAIMBE, Life Fellow IEEE, FIAMBE, FIUPESM, President IEEE SSI, & EMBS ADCOM. AUDITORIUM MEETING ROOM VERDE ARENA-CALI CONVENTION CENTER, COLOMBIA	MASTER CONFERENCE 6 . <b>"Cognitive systems applied in the management of health technology."</b> Prof. Renato Garcia AUDITORIUM MEETING ROOM VERDE ARENA-CALI CONVENTION CENTER, COLOMBIA, Colombia Colombia	MASTER CONFERENCE 10 <b>"Usability and development of health technology"</b> Prof. Renato Garcia, Federal University of Santa Catarina, Brazil AUDITORIUM MEETING ROOM VERDE ARENA-CALI CONVENTION CENTER, COLOMBIA, Colombia Colombia"	
6:30 - 7:00 pm		POSTER EVALUATIONS	POSTER EVALUATIONS	
7:00 - 8:30 pm		"Colombian folklore and cocktail Welcome reception"	Closing Ceremony. Investigators Awards Presentations by ABIION /CORAL/IFMBE REPRESENTATIVES OF MEDICAL TECHNOLOGIES AND UNIVERSITIES EXPONSORS	CALI SEÑORIAL THEME WALK- OLD CITY, BASTION DE LA SALSA, GARDEN CITY, THEME PARKS, ARTEZANOS, HOTEL AREA
OPENING AND CLOSING CEREMONIES PANEL sessions CONFERENCIA MAGISTRALES CONFERENCIAS Y PONENCIAS VIRTUALES - MODALIDAD LINK COFFEE BREAKS, CULTURE ACTIVITIES, MEETING POSTER EVALUATIONS SEMILLEROS DE INVESTIGACION CONFERENCIA VIRTUAL - AUDITORIO				