



INTERNATIONAL FEDERATION FOR MEDICAL AND BIOLOGICAL ENGINEERING

Affiliated with the International Union for Physical and Engineering Sciences in Medicine

Office of the Secretary-General: Prof. K.P. Lin

Nominations for Elections in 2018

NOMINEE INFORMATION FORM

Nomination for the position of	Administrative Council (AC) Member
Name	Martha Lucía Zequera Díaz
Affiliated Society	ABIOIN (Bioengineering and Medical Electronics Colombian Society)
Current Position (in Affiliated Society)	Delegate ABIOIN. Past Secretary CORAL
Current Profession (in Academia, Hospital, etc.)	Professor in Bioengineering at Electronics Department. Pontificia Universidad Javeriana. Bogota, Colombia

Photograph (please use the space provided below only)





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Brief Biography (200 words)

Prof. Martha Zequera obtained her MSc at Biomedical Engineering at Dundee University, UK, in 1992, funded by the British Council, and a Ph.D. degree from the Bioengineering Unit at the University of Strathclyde, UK, in 2003, with the support of COLCIENCIAS. Since 2010 she is an Honorary Research Fellow from Strathclyde University at Bioengineering Unit. Prof. Zequera is Full (Titular) Professor at Electronics Department, School of Engineering, at Pontificia Universidad Javeriana, Bogotá, Colombia and she has been working as a researcher for 15 years at the Bioengineering Research Group "BASPI", focus in signal and image processing analysis. Her current research interests in Biomedical Engineering include biosensors, biomedical instrumentation, medical devices, assistive technologies and e-health, especially for diabetes care and physical rehabilitation of balance control and gait disorders in elderly with neurological illness. She is author or co-author of numerous journal and conference papers. She was the Latin American Representative and AdCom member of the IEEE/EMBS society for four years; she was also nominated as a Chair of the IEEE/EMBS Chapter World Development Committee during three years. Dr. Zequera was also the Scientific Secretary of the Latin American Regional Council on Biomedical Engineering (CORAL) for five years, from 2005 to 2010. Dr. Zequera has been active as a member of the IFMBE Education & Accreditation Committee and also she is a member of the IFMBE Industry Working Group. She has organized several scientific conferences, sessions, meetings, minisymposia and courses in Biomedical Engineering Education in collaboration with the international societies IFMBE/CORAL/IEEE-EMBS. She is involved in several research projects financed by institutional resources and European Commission resources (Program Horizon 2020) for the early diagnostics and management of diabetes and cardiovascular disorders in collaboration with the Strathclyde (UK), University Ulster (UK), Zagreb University, (Croatia), Orleans University, (France) and Purdue, (USA). She is a co-author of a chapter in WHO publication "Human Resources for Medical Devices", May, 2017.


Position

During the latest 10 years of my academic and research life, I have been involved as a member of the IFMBE/CORAL and IEEE/EMBS international societies, promoting Biomedical Engineering and Bioengineering in Colombia, in Latin America, in USA and Europe. I have organized or have been involved in organization of special sessions in BME, in particular in research of new and innovative technologies for diabetes monitoring, treatment and prevention. I collaborated and contributed to several special sessions organized by the IFMBE Education & Accreditation Committee and by the IFMBE Industry Working Group at the World Congress on Medical Physics and Biomedical Engineering. I was involved in organization of several IFMBE Co-Sponsored Conferences in Latin America, CLAIB. I contributed to several IEEE EMBS annual conferences, also in organization of Special Sessions and in facilitating the collaboration of IFMBE and EMBS. I would like to keep working in maintaining and strengthening the existing national societies in CORAL and networking with other IFMBE societies from other continents to promote Medical and Biological Engineering, Biomedical Engineering and Bioengineering. I would like to enhance collaboration between national and transnational societies, industry and government engaged in BME, in research of emerging technologies, health care or other activities which address special needs of the region by organizing joint sessions or forums with the support of the Industry Working Group during conferences at the national, regional and international level. I find promoting “better health for all humanity” my mission. I would like to promote the collaboration between professionals and students from Medicine, Nursing, Computer Sciences, Medical Physics and Bioengineering areas by promoting the organization of joint summer schools on emerging technologies for healthcare with the support of IFMBE, IEEE/EMBS and CORAL.

Statement (200 words)

I agree to have my name placed in nomination for the above position, and if elected, to serve for the three or six-year term specified.

Signature of Candidate: _____



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