

Special Session Title:

Enabling Innovative Technologies for Global Healthcare: Round Table on COVID-19

Special Session Organizer Name & Affiliation:

Colin Brenan, EMBS VP Technical Activities

Special Session Speaker Name & Affiliation 1:

Marc Zissman, MIT Lincoln Laboratory

Special Session Speaker Name & Affiliation 2:

Nancy Gagliano, NIBIB

Special Session Speaker Name & Affiliation 3:

Wilbur Lam, Emory University/ Georgia Tech

Special Session Speaker Name & Affiliation 4:

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Special Session Speaker Name & Affiliation 5:

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Special Session Speaker Name & Affiliation 6:

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Theme:

- 01. Biomedical Signal Processing
- 02. Biomedical Imaging and Image Processing
- 03. Micro/ Nano-bioengineering; Cellular/ Tissue Engineering & Biomaterials
- 04. Computational Systems & Synthetic Biology; Multiscale modeling
- 05. Cardiovascular and Respiratory Systems Engineering
- 06. Neural and Rehabilitation Engineering
- 07. Biomedical Sensors and Wearable Systems
- 08. Biorobotics and Biomechanics
- 09. Therapeutic & Diagnostic Systems and Technologies
- 10. Biomedical & Health Informatics
- 11. Biomedical Engineering Education and Society
- 12. Translational Engineering for Healthcare Innovation and Commercialization

Special Session Synopsis— Max 2000 Characters

The global response to contain and prevent the spread of the COVID-19 pandemic has followed classic public health guidelines: testing to identify infected individuals, contact tracing and quarantine in isolation the infected individual and those in recent contact with them. Mobile phone apps, newly developed rapid diagnostic tests, advanced manufacturing, supply chain management and point-of-care deployment have resulted in the creation of a new, robust systems of infectious disease management based on leveraging these advanced technologies and capabilities.

In this session four speakers will brief the audience on the systems of care created in their region based on harnessing these technological capabilities to combat the spread of COVID-19 infections. A follow-on roundtable discussion will allow the audience to engage the speakers to illuminate further the “lessons learned” thus far in the integration of these technologies into an advanced system for infectious disease monitoring and prevention

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