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IEEE Nanotechnology Council
Newsletter | May 2020



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PRESIDENT'S MESSAGE

Dear IEEE Nanotechnology Council Participants,

The IEEE Nanotechnology Council (NTC) is closely monitoring developments related to the rapidly evolving COVID-19 pandemic. Technical events and conferences in general, due to the gathering of large number of people and wide range of travels, have been the most impacted services of our organization. Given that the health and safety of our participants is the Council's utmost priority, we have decided to make some changes to the timeline of our upcoming conferences.

IEEE NANO

- IEEE NANO 2020 will be held virtually
- IEEE NANO 2021 will be held in Montreal, Canada
- IEEE NANO 2022 will be held in Mallorca, Spain
- IEEE NANO 2023 will be held in Jeju Island, South Korea

IEEE NMDC

- IEEE NMDC 2020 will be postponed to 2022
- IEEE NMDC 2021 will be co-located with CEIDP 2021 in mid-October to be held in Vancouver, British Columbia
- IEEE NMDC 2022 will be held in Nanjing, China on October 18-21, 2022

IEEE NEMS

- IEEE-NEMS 2020 has been postponed to September

IEEE NANOMED

- IEEE NANOMED 2020 scheduling will depend on the situation with regard to the pandemic

Additionally, in this newsletter issue, you will find status updates on all of our sponsored and co-sponsored conferences, as well as an inside look at the Council's recent activities, including, but not limited to, Technical Activities, Chapters, Awards, and Publications.

As always, I am available to hear your feedback, questions, or suggestions on how we can better serve you. You can contact me directly at j.e.morris@ieee.org.

Be well and stay safe!

Sincerely,

James Morris

NTC President 2020-21

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IEEE UPDATES

COVID-19 related research and technologies free to access in IEEE *Xplore*®

IEEE is committed to supporting the global response with direct access to various articles available to assist in the management of today's pandemic. These articles are now free to access on IEEE *Xplore*® <https://ieeexplore.ieee.org>. For more information, click [here](#).

Stay Connected to IEEE *Xplore* when working remotely

If your organization has an institutional subscription to IEEE *Xplore*(R) and you need to work remotely due to school and workplace closures, you can still access IEEE *Xplore* and continue your work and research while offsite. Try these [tips](#) for remote access or [contact IEEE](#) for help. IEEE is here to support you, making certain that your IEEE subscription continues to be accessible to all users so they can continue to work regardless of location.

Project funding for local COVID-19 activities

The COVID-19 pandemic has affected the world in an unprecedented manner, and as such, Humanitarian Activities Committee (HAC) has adapted its requirements to better enable IEEE volunteers to contribute. For that reason, HAC and SIGHT (Special Interest Group on Humanitarian Technology) Projects have joined forces to prioritize proposals that have a strong potential for immediate impact in the fight against COVID-19. For more details, click [here](#).

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COUNCIL NEWS

Nanotechnology Council Seeking Nominations for 2021-22 Officers

The IEEE Nanotechnology Council (NTC) is seeking nominations for the following positions:

- (1) President-elect (2021) (1-year) and President (2022-2023)
- (2) VP for Conferences (2021-2022)
- (3) VP for Finances (2021-2022)

Nominations may be made only by current AdCom members. The election will be held by the NTC AdCom in July TBA (most likely online). Nominees need to be present for the election.

The deadline for nomination is **May 22, 2020**. For additional details, click [here](#).

NTC Technical Activities

by Kremena Makasheva, NTC VP for Technical Activities

The first on-line NTC Technical Activity Committee (TAC) meeting was held on April 22nd, 2020 in the presence of almost all NTC TAC Members. It was a long-time expected meeting and I would like to thank the NTC TAC Members for their presence and very fruitful discussion. Following the welcome address and introductory remarks by the NTC President James Morris, the NTC Vice President for Technical Activities (VP TA) presented an Action Plan of the NTC Technical Activities (TA) for 2020/2021.

The main objectives of the NTC TA Action Plan are to straighten the NTC TA, to improve coordination between the NTC Technical Committees (TCs), and to increase interactions with other NTC units. After discussion on the key-points and proposals to complete/improve the NTC TCs visibility, the NTC TA Action Plan was adopted. Moving forward, we will inform you timely on the different steps, actions and decisions made by the NTC Technical Activity Committee.

The NTC TA are currently developed in **15 TCs**, covering almost all scientific areas of interest to the NTC. The role of each NTC TC is to serve as a focal point for research in a specific area. The actions undertaken by each NTC TC are developed by its Members under the leadership of Chair/Co-Chairs. Each NTC TC is created for a 4-year term and can be renewed by the NTC AdCom after a progress report and evaluation. Recently the Chairs of two of the NTC TCs have been reformed. It is our pleasure to announce the new Chairs of

the NTC TC6 Nanoelectronics, Malgorzata Chrzanowska-Jeske, and the NTC TC8 Nanomaterials, Dominique Baillargeat. On behalf of the NTC TAC, I would like to thank them for taking these responsibilities and wish them a very successful leadership.

TC6 – Nanoelectronics

Malgorzata Chrzanowska-Jeske ([Bio](#))
Portland State University, Oregon, USA
jeske@ece.pdx.edu

TC8 - Nanomaterials

Dominique Baillargeat ([Bio](#))
University of Lomoges, France
dominique.baillargeat@xlim.fr

For a full list of NTC's 2020 Technical Committee, click [here](#).

2019 Outstanding NTC Chapter Award Goes to the Inaugural Chapter

by Nick Massetti, NTC Chapters Chair

The San Francisco Bay Area Nanotechnology Council Chapter was awarded the 2019 Outstanding Chapter Award for the third time since 2014. The chapter was formed in 2005 as the inaugural chapter of an IEEE Council rather than an IEEE Society. Since then, the chapter has hosted a continuing string of monthly events comprising single speaker lunch time talks, an annual full day symposium of talks in the Spring and an annual half-day symposium in the Fall. Located in a unique global technology center its mission has been mission is to enable nanotechnology engineering by building bridges between industry, academia, and government, through the facilitation of education, networking, & entrepreneurship. It provides valuable education, networking opportunities, and services through these events helping attendees develop and nurture professional relationships among peer working engineers, scientists, technologists, academics, and entrepreneurs. Most event speakers are recruited from local universities and companies as well as the occasional IEEE Distinguished Lecturer. Event attendance typically includes more non-IEEE members than members representing a broad audience and demographic which strives to fulfill the goal of advancing technology for humanity. The chapter also holds joint activities with other member societies, engages with students and provides a forum for job seekers.

The quality and longevity of the chapter is directly related to a large and active Executive Steering Committee, many of whom were among those chartering the chapter in 2005, by dividing responsibilities among their members to address event logistics, event promotion, speaker acquisition and venue management as examples. New volunteers are continuously added and they assume roles with increasing responsibility and further develop their professional networks.

In keeping with the times, events are promoted on its own IEEE Listserv and on social media such as:

Website: <http://sites.ieee.org/sfbanano/>

LinkedIn: <https://www.linkedin.com/groups/2631226>

Meetup: <http://www.meetup.com/Nanotechnology-Council-San-Francisco-Bay-Area/>

Facebook: <https://www.facebook.com/bayareanano/>

Twitter: <https://twitter.com/NanoSFBA>

For full list of current chapters and contacts, click [here](#).

How to start your own Chapter

Since this first chapter was formed, NTC has grown to include 29 Chapters worldwide and another 14 Student Chapters. Any member of the IEEE NTC can file a petition to form a chapter on line at https://www.ieee.org/communities/forms_petitions.html. The IEEE Petition Team takes care of acquiring supporting signatures from neighboring members of NTC Society Members. The Outstanding Chapter Award winner might provide a useful model. For more information or inquiries of general chapter interest contact Nick Massetti, NTC Chapters Committee Chair, at nickmassetti@ieee.org.

Distinguished Lecturers program goes VIRTUAL

Due to the COVID-19 pandemic, the Distinguished Lecturers program has gone virtual! Chapters or organizations wanting a DL should still contact the lecturers so that arrangements can be made for a virtual presentation.

For a list of the NTC 2020 Distinguished Lecturers, click [here](#).

Young Professional Representative for NTC

We are pleased to announce Rafal Sliz as the Young Professional Representative for the Nanotechnology Council.

Rafal is an IEEE Senior Member and since the beginning of his volunteering career, he has been involved in the activities of Young Professionals, starting from Finland Section, through Region 8 and finally the Global Committee. His dream was to make IEEE and the Young Professionals Program more relevant to young people and improve product and services offered by IEEE.



Since 2018 Rafal has been working as a Professor in the field of nanotechnology and printed electronics at the University of Oulu, Finland. His interests include fabrication and testing of flexible and printed components, as well as systems used in wearables and IoT. His daydream is to advance printed electronics to a stage where fabrication of electronic components will be as easy as printing newspapers, and the technology will serve people

without having a negative impact on our environment.

2020 NTC Award Winners Announced

Hearty congratulations to the following 2020 NTC Award Winners! Watch for further details about the Awards Ceremony.



Professor Supriyo Bandyopadhyay

Virginia Commonwealth University

“For pioneering contributions to spintronics and straintronics employing nanostructures”



Professor Mikhail Kats

University of Wisconsin-Madison

“For outstanding technical innovations and achievement in nanophotonics, especially for optical metasurfaces, light interaction with nanoscale films, and tunable nanomaterials”



San Francisco Bay Area Chapter

Chair: Vasuda Bhatia

vasudabhatia@live.com

For additional information, click [here](#).

NTC participating in the Heterogeneous Integration Roadmap (HIR)

The Nanotechnology Council is participating in the Heterogeneous Integration Roadmap. The HIR activities are sponsored by IEEE Electronics Packaging Society (EPS), SEMI, IEEE Electron Devices Society (EDS), IEEE Photonics Society and the ASME EPPD Division.

The Heterogeneous Integration Roadmap (HIR), released October 2019, is a roadmap to the future of electronics identifying technology requirements and potential solutions. The primary objective is to stimulate pre-competitive collaboration between industry, academia and government to accelerate progress. The roadmap offers professionals, industry, academia and research institutes a comprehensive, strategic forecast of technology over the next 15 years. The HIR also delivers a 25-year projection for heterogeneous integration of Emerging Research Devices and Emerging Research Materials with longer research-and-development timelines. With the release of the 2019 HIR edition, the preparation of the 2020 edition is underway.

NTC representatives to this effort are:

Meyya Meyyapan, Chair, and representative for Emerging Devices

Deji Awkinwande, Emerging Materials representative

The HIR is starting a webinar series for this initiative. More information can be found [here](#).

Additional details on HIR activities can be found [here](#).

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PUBLICATIONS

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IEEE Transactions on Nanotechnology

View the full current issue of IEEE T-NANO

[T-NANO, Volume 10](#)

For additional information, visit the [IEEE Xplore](#)

[website](#).

To submit to T-NANO, click [here](#).



IEEE Open Journal of Nanotechnology

View the full current issue of IEEE OJ-NANO

[OJNANO, Volume 1, Issue 1](#)

For additional information, visit the [IEEE Xplore website](#).

To submit to OJ-NANO, click [here](#).



IEEE Nanotechnology Magazine

View the full current issue of IEEE INM

[INM, Volume 14, Number 2](#)

For additional information, visit the **[IEEE Xplore website](#)**.



IEEE Transactions on NanoBioscience

IEEE TRANSACTIONS ON
NANOBIOSCIENCE

View the full current issue of IEEE T-NB

[T-NB, Volume 19, Number 2](#)

For additional information, visit the **[IEEE Xplore website](#)**.

To submit to T-NB, click **[here](#)**.

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CONFERENCES

Conference Updates





29–31 July 2020
IEEE-NANO 2020 | VIRTUAL

20th IEEE International Conference on Nanotechnology

Flagship Conference

IEEE NANO 2020

July 29-31, 2020 | VIRTUAL

NANO 2020 will run as a virtual conference due to the COVID-19 pandemic and NANO 2021 will run in Montreal. The [NANO 2020 website](#) is being revised with a Call for “Late Breaking News” papers being issued with 2-page formatted abstracts due by May 31st and final papers by June 30th.

[More info](#)

MARSS

International Conference on Manipulation,
Automation and Robotics at Small Scales



Toronto, Canada
July 19–23, 2021

MARSS 2020

MARSS 2020 has been moved to 2021 due to COVID-19.

Save the Date

MARSS 2021

July 19-23, 2021 | Toronto, Canada

[More info](#)



IEEE NMDC 2020

NMDC 2020 has been moved to 2022 due to COVID-19.

Save the Date

NMDC 2022

October 16-19, 2022 | Nanjing, China

[More info](#)



IEEE 3M-NANO

3M-NANO 2020 has been postponed to August 2-6, 2021 due to COVID-19.

Save the Date

3M-NANO 2021

August 2-6, 2021 | Xi'an, China

Full Paper Submission Deadline: May 1, 2021

[More info](#)

IEEE-NEMS 2020

The Westin San Diego Gaslamp Quarter | San Diego, USA | 27-30 September 2020

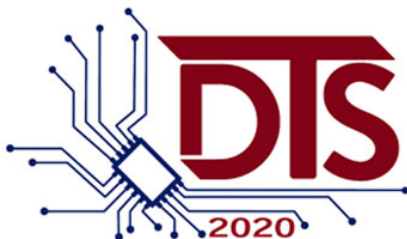


IEEE-NEMS 2020 has been postponed to September 27-30, 2020 due to COVID-19.

September 27-30, 2020 | San Diego, California, USA

Abstract Submission Deadline is **EXTENDED** to June 1, 2020.

[More info](#)



IEEE International Conference on
Design & Test
of integrated micro & nano-Systems

June 7 - 10, 2020, Hammamet, Tunisia

IEEE DTS 2020

June 7-10, 2021 | Hammamet, Tunisia

[More info](#)

For further conference details, visit our [website](#).

Call for Proposals for Future IEEE NTC Sponsored Conference Sites

The IEEE Nanotechnology Council (NTC) is calling for proposals for future sites for IEEE NMDC 2023.

Deadline: June 30, 2020

The [IEEE Nanotechnology Materials and Devices Conference](#) (NMDC) aims to develop critical assessment of existing work and future directions in nanotechnology research from every sector in the nanotechnology research field, with a special focus on materials and devices. NMDC 2021 will be held in Vancouver, Canada, and NMDC 2022 will be held in Nanjing, China (postponed from NMDC 2020 due to COVID-19). Past locations of the NMDC have been in Asia (Korea, Japan, Taiwan, Singapore), USA (California, Michigan, Hawaii, Alaska, Portland), and Europe (Sicily, France, Stockholm). NMDC typically runs between mid-September and mid-October, with the later dates preferred since IEEE NANO runs in late July.

We are now seeking proposals for IEEE NMDC 2023 which is expected to run in IEEE Region 8 (Europe & Africa.) This Call for Proposals is a year earlier than usual for NMDC 2023 to give organizers more planning time than in the past.

Early indication of an intention to submit a proposal is strongly recommended. Candidates for NMDC 2023 will be expected to present an informal 15-minute "Proposal in preparation" at the online NTC Excom and Adcom meetings in July 2020. The location will be decided at the November ExCom meeting.

Proposal deadline: June 30, 2020

Formal proposals must be e-mailed prior to the appropriate deadline to NTC Vice-President for Conferences [Lixin Dong](#), with copies to [Ed Perkins](#), NTC Secretary.

For more information, visit [Call for Conference Proposals](#).

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