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## IEEE Nanotechnology Council Newsletter | July 2020



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## IEEE UPDATES

### Project IEEE New Initiatives Program is Looking for Bright Ideas!

The IEEE **New Initiatives Committee** (NIC) helps bring great ideas to light. If you have a particular program, product, or service offering that can make a significant impact on IEEE members, the public, or a technical community, share your vision with the IEEE New Initiatives Committee (NIC). The New Initiatives Program can provide either seed funding or higher levels of funding.



#### 2020 Focus Areas

- Increasing our connection to industry
- Engaging and recruiting members
- Creating innovative educational opportunities
- Increasing the visibility of IEEE and demonstrating its relevance to different communities

Visit [ieeep.org/initiatives](https://ieeep.org/initiatives) to learn more.

### 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

### Women in Engineering Representative for NTC

We are pleased to announce **Saumya Sharma** as the Women in Engineering Representative for the Nanotechnology Council.

Saumya Sharma is an early career professional in the field of semiconductors and nanotechnology with a PhD in Electrical Engineering. Her technical role in EUV lithography, sensors, IoT and nano-patterning with companies like ASML, IBM and ABB have led to more than 20 patent applications and numerous journal publications. Saumya has also shown leadership in intellectual property policy making within the scope of patenting strategies and patent portfolios for startups, academic institutions as well as corporations.



She has served on the NSF panel of reviewers, has held the role of IEEE-CT section chair for Young Professionals and Aerospace and Electronic Systems Society, and also actively contributes as a technical expert in the IEEE Public Visibility (PV) Committee.

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### Announcing New Chair of the NTC TC 2

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

It is our pleasure to announce the new Chair of the NTC TC2 Nano-Biomedicine, Haibo Yu. On behalf of the NTC TAC, I would like to thank him for taking this responsibility and wish him a very successful leadership. This is a critical area for NTC development given its new 45% partnership in the IEEE Transactions on NanoBioscience (see below).

**TC2- Nano-Biomedicine Chair**

Haibo Yu (于海波) (**Bio**)

Shenyang Institute of Automation, Chinese Academy of Sciences

[yuhaibo@sia.cn](mailto:yuhaibo@sia.cn)

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

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## 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](#).

Seven of the NTC 2020 DLs will be giving Keynote speeches at [IEEE NANO 2020](#)! Check out the lineup [here](#).

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## How to Start your own Chapter

Since the 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 online at [https://www.ieee.org/communities/forms\\_petitions.html](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](mailto:nickmassetti@ieee.org).

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

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## Call for Award Nominations



Nominations are being solicited for the IEEE Nanotechnology Council's 2020 Awards. **These are due by 1 October 2020.**

Award categories are Early Career, Pioneer and Distinguished Service.

### **PIONEER AWARD IN NANOTECHNOLOGY**

The NTC Pioneer Award in nanotechnology is to recognize individuals who by virtue of initiating new areas of research, development or engineering have had a significant impact on the field of nanotechnology. The award is intended for people who are in the mid or late portions of their careers, i.e., at least 10 years beyond his or her highest earned academic degree on the nomination deadline date.

### **EARLY CAREER AWARD IN NANOTECHNOLOGY**

The Nanotechnology Council has established an Early Career Award to recognize individuals who have made contributions with a major impact on the field of nanotechnology.

### **DISTINGUISHED SERVICE AWARD**

Nanotechnology Council to establish a Distinguished Service Award to recognize an individual who has performed outstanding service for the benefit and advancement of the Nanotechnology Council.

See the [\*\*NTC Award Nominations page\*\*](#) for full description and nomination form.

**Nominations are due by 1 October 2020.**

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

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## **PUBLICATIONS**

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## **IEEE Transactions on Nanotechnology**

View the full current issue of IEEE T-NANO

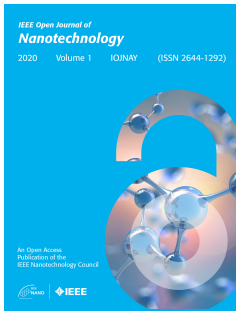
[\*\*T-NANO, Volume 10\*\*](#)

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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## Call for Papers for upcoming Special Section in IEEE TNANO

The IEEE Transactions on Nanotechnology (TNANO) seeks original manuscripts for a Special Section on: “Micro/Nanorobotics and its biomedical applications”. This special issue covers the important and influential topics of micro/nanorobotics (including micro/nanorobots and micro/nanomanipulators) and its biomedical applications. Additionally, the potential and valuable directions of further research will be addressed.

Relevant topics of interest to this special section include (but are not limited to):

- Micro/Nanorobots and micro/nanomanipulators

- Micro/Nanorobotics, nanotechnology, MEMS and automation
- Novel concepts, materials, fabrications, and designs for micro/nanorobotics
- Novel sensing, actuation and control techniques/theories for micro/nanorobotics
- In vivo and in vitro biomedical applications of micro/nanorobots
- Applications of micro/nanomanipulators for biological characterizations, manipulations, and measurements

### Important Dates

- Submission deadline: **15 July 2020**
- First decision (accept/reject/revise): 1 October 2020
- Revised papers submission: 1 December 2020
- Final decision: 31 December 2020

Click [here](#) for more information

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## Call for Papers – TNANO Special Section on IEEE NMDC 2019

The IEEE Transactions on Nanotechnology (TNANO) seeks original manuscripts for a Special Section on: “14th IEEE Nanotechnology Materials and Devices Conference (IEEE 2019 NMDC)”

The nanotechnology revolution is founded upon the fascinating progress in nanoscale materials and devices. Researchers are contributing new ideas from a wide range of disciplines, including materials science, biology, biomedicine, engineering, physics, and chemistry. To make interesting research presented at the 14th IEEE 2019 Nanotechnology Materials and Devices Conference widely available, in expanded form and in one publication, IEEE Transactions on Nanotechnology (TNANO) is extending a Call for Papers for a Special Section reflecting the scope of the conference. Submitted manuscripts will undergo a full peer review process. Submissions are welcome, and all interested 2019 NMDC participants are encouraged to submit. Authors who were attendees are requested to significantly expand the previous conference version to contain substantial new technical material, as per TNANO and IEEE restrictions on duplicated publications and the competitive acceptance process.

Submissions that reflect the Conference Scope and current state of the field are welcome in areas including but not limited to:

- Nanoelectronics and CMOS
- Nanophotonics, Metamaterials and Plasmonics
- Low-D Structures: Nanowires, Quantum Dots,
- 2D Materials and Devices
- Quantum Technology
- Nano-Magnetic Structures and Devices
- Organic Nanomaterials and Devices
- NEMS/MEMS and Sensors

- Biosensing and Biomedical Applications
- Interconnects, Packaging and Reliability
- Synthesis and Fabrication of Nanostructures
- Theory/Modelling of Nanomaterials and Devices
- Emerging Topics

### Important Dates

- Submission deadline: **1 August 2020**
- First decision (accept/reject/revise): 1 October 2020
- Revised papers submission: 15 November 2020
- Final decision: 31 December 2020

Click [here](#) or more information

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## CONFERENCES

### Project Plans for NTC Conferences due to COVID-19 Pandemic

The IEEE Nanotechnology Council (NTC) is closely monitoring developments related to the rapidly evolving COVID-19 pandemic. Below is a status update of several of the IEEE NTC Conferences impacted by the COVID-19 pandemic:

#### IEEE-NANO (IEEE International Conference on Nanotechnology)

- Considering the present circumstances related to COVID-19, the Conference Committee of the IEEE Nanotechnology Council and the Montreal organizers of the 20th IEEE International Conference on Nanotechnology 2020 (IEEE NANO 2020) decided jointly that IEEE NANO 2020 must convert to an all-virtual format held on 29-31 July 2020. See website [2020.ieeenano.org](https://2020.ieeenano.org).
- The physical NANO 2020 conference in Montreal is now moved to 2021 and becomes the 21st IEEE International Conference on Nanotechnology (IEEE NANO 2021) to be held on 28-30 July 2021. Abstracts previously submitted to IEEE NANO 2020 (Montreal) and not presented at the virtual NANO 2020 will be transferred to the NANO 2021, for which an additional call for papers will be open 15 November 2020 – 31 January 2021. Look for further information on their website at [2021.ieeenano.org](https://2021.ieeenano.org), which will go live according to tradition at the conclusion of NANO 2020.
- NANO 2021 planned in Majorca is postponed to 2022.

#### IEEE-NMDC (IEEE Nanotechnology Materials and Devices Conference)

- For the best interests of the public health safety and conference experience and in view of the continuing uncertainty from the COVID-19 pandemic, we are here



announcing that IEEE NMDC 2020 planned on 18-21 October in Nanjing, China will postpone to 2022 (e.g. become NMDC 2022) on 16-19 October 2022, still in Nanjing. See website <http://nmdc2020.org/> for announcements.

- In place of NMDC 2020, we will be organizing a virtual event in October. Details will be announced.
- NMDC 2021, collocated with CEIDP 2021, is to be held at the Pinnacle Harbourfront Hotel, 17-20 October 2021, in Vancouver, Canada.

### **IEEE NEMS (IEEE International Conference on Nano/Micro Engineered and Molecular Systems)**

- IEEE-NEMS 2020 has been converted to an all-virtual format to be held on 27-30 September 2020. More information is available on the website: <https://ieee-nems.org/2020/>.

### **IEEE-NANOMED (IEEE International Conference on Nano/Molecular Medicine and Engineering)**

- IEEE-NANOMED 2020 scheduling for November is being evaluated. See the website: <http://ieee-nanomed.org/>.

### **IEEE NAP (IEEE International Conference on Nanomaterials: Applications & Properties)**

- IEEE NAP 2020 will be held in a virtual format on November 9-13, 2020. Additional information can be found on the website: <https://nap.sumdu.edu.ua/>.

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## **Conference Updates**



### ***Flagship Conference***

## **IEEE NANO 2020**

**July 29-31, 2020 | VIRTUAL**

See our fantastic lineup of plenary and invited speakers, plus technical schedule [here!](#)



*IEEE-NANO 2020 will include a special program of events celebrating the 20th Anniversaries of the IEEE Nanotechnology Conference Series and of the IEEE Nanotechnology Council.*

## Registration is now open!

[More info](#)

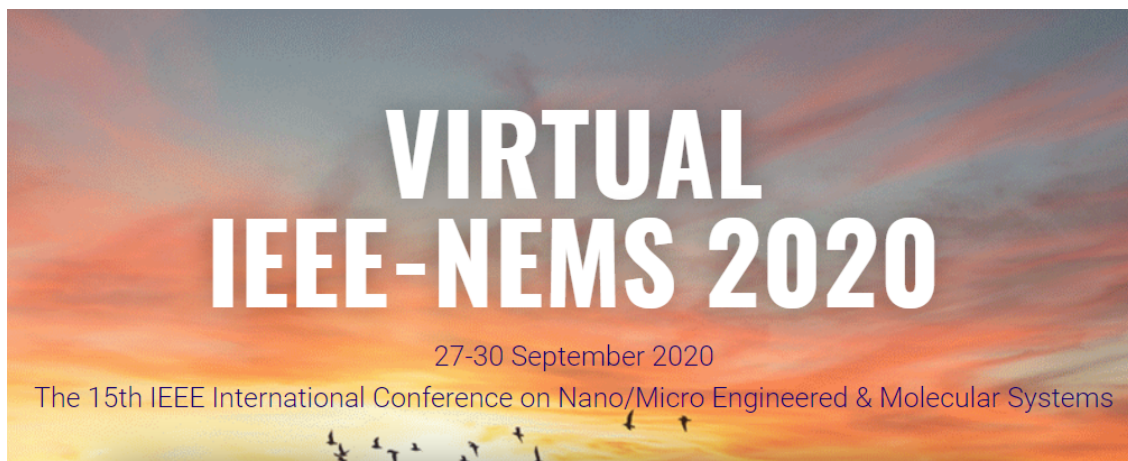


## IEEE NMDC 2020

**NMDC 2020 will be hosting a virtual event in October 2020!**

Details to be announced.

[More info](#)



## IEEE-NEMS 2020

**September 27-30, 2020 | VIRTUAL**

***New Late-News Abstract Submission Deadline is 31 July 2020!***

[More info](#)



## IEEE NAP 2020

November 9-13, 2020 | VIRTUAL

Call for Abstracts & Papers are due 31 August 2020!

[More info](#)

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

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