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## IEEE Nanotechnology Council Newsletter | August 2020



### IN THIS ISSUE

[Council News](#)  
[Call for Nominations](#)  
[Awards](#)  
[Publications](#)  
[Conferences](#)

### KEEP UP WITH US



## COUNCIL NEWS

### IEEE Nanotechnology Council Elects 2021 Officers

The IEEE Nanotechnology Council (NTC) elected new officers at its Annual Administrative Committee Meeting held virtually 23-24 July.

Representatives of the twenty-three IEEE Societies who are Council members gather annually to conduct Council business and elect officers. This year three positions were up for election: President-elect for 2021 (President in 2021-22), VP for Conferences and VP for Finances (2021-22).

Prof. Fabrizio Lombardi, International Test Conference (ITC) Endowed Chair at Northeastern University, Boston was elected President-elect for 2020. Jin-Woo Kim, Director of Bio/Nano Technology Group and Professor of Biological Engineering at the University of Arkansas, was elected Vice President for Conferences 2021-2022. Malgorzata Chrzanowska-Jeske, Professor of ECE and Director of VLSI & Emerging Technology DA Laboratory at Portland State University, was re-elected Vice-president for Finances 2021-2022.



**President-Elect**  
Fabrizio Lombardi



**VP Conferences**  
Jin-Woo Kim



**VP Finance**  
Malgorzata Chrzanowska-Jeske

For additional information on each officer, please visit our [website](#).

[Back to Top](#)

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## CALL FOR NOMINATIONS

### Nanotechnology Council Seeking Nominations for 2021 VP Publications

As a result of a vacancy after the Annual Meeting elections, the IEEE Nanotechnology Council (NTC) is seeking nominations for **Vice-President for Publications** to fill the remaining year (2021) of the term of office.

This position will start effective 1-January-2021. Note that the regular election cycle for VP Publications will be at the 2021 NTC Annual Meeting in July for the term from 2022-23. The incumbent VP, in this case, can stand for election to a full term at that time.

Visit the [website](#) for additional information.

**Nominations are due by 31 August 2020.**

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### Call for Nominations Editor-in-Chief – IEEE Journal of Photovoltaics

The IEEE Journal of Photovoltaics (JPV) is a peer-reviewed, archival publication reporting original and significant research results that advance the field of photovoltaics (PV). The PV field is diverse in its science base ranging from semiconductor and PV device physics to optics and the materials sciences. The journal publishes articles that connect this science base to PV science and technology. The intent is to publish original research results that are of primary interest to the photovoltaic specialist.

JPV is **jointly sponsored** by the IEEE Electron Devices Society, Photonics Society, Power and Energy Society, Power Electronics Society, Industrial Electronics Society, Reliability Society and Nanotechnology Council.

We invite **nominations for the position of Editor-in-Chief (EiC)** for JPV for a 3-year term beginning in **January 2021**.

#### **Criteria for the Nominees:**

- Ability and motivation to spend sufficient time each week assigning papers and reviewing the acceptance and rejection decisions made by the associate editors;
- Demonstrated technical leadership in an aspect of photovoltaics;
- Formal support from the institution for which the nominee works (waived if self-employed);
- Has served or currently is serving as editor or associate editor at another publication.
- Commitment to guide JPV according to this Call for Nominations;
- In addition, the EIC must demonstrate a willingness to work collaboratively with internal and external stakeholders to ensure the advancement of the society's vision and mission as well as the technical and fiscal health of JPV.

#### **Requirements for Nominations:**

- A brief IEEE-style biography (up to 250 words) of the nominee;
- A complete CV and list-of-publications of the nominee;
- A brief statement from the nominator on nominee's qualification and how the nominee meets the criteria listed above;
- A letter from nominee's employer indicating support for the EiC activity;
- Endorsement from two IEEE members on the nomination;
- Optionally, a statement (up to 500 words) from the nominee on his/her vision for the journal.
- Self-nominations are encouraged.

**Please email the nomination materials to** James Skowrenski  
([J.Skowrenski@ieee.org](mailto:J.Skowrenski@ieee.org)) no later than **30 September 2020**.

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

**Nominations are due by 30 September 2020.**

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## **Call for Nominations - 2021 IEEE NTC Distinguished Lecturers**

The IEEE Nanotechnology Council (NTC) is seeking nominations for distinguished lectures. The NTC has created a **distinguished lecturers program** to enhance the visibility of NTC among nanotechnology societies. The NTC Distinguished Lecturers are appointed to honor excellent speakers who have made technical, industrial or entrepreneurial contributions of high quality to the field of nanotechnology and science, and to enhance the technical programs of the Nanotechnology Council chapters and conferences. Consideration is given to

having a well-balanced variety of speakers who can address a wide range of topics of current interest in the fields covered by the Society.

The term for the Lecturers is from January 1 until December 31 of 2021. The Lecturers serve for a one year term and may be reappointed for one additional year with the approval of the NTC Distinguished Lecturer Committee. A budget will be provided to each Lecturer to give lectures for NTC Chapters and NTC Conferences based on the availability of funding through the NTC. DLs are expected to give a minimum of 2 lectures per year as part of their commitment to serve.

Candidates for DLs may be nominated by any current IEEE member, using the IEEE **NTC Distinguished Lecturer Nomination Form**. ***Self-nomination is not accepted.*** Endorsements are not required but are recommended.

The selection of distinguished lectures will be made by the Distinguished Lecturer Committee, a subcommittee of the Education Committee chaired by the VP Educational Activities, and approved by the NTC ExCom.

Please submit the nomination by midnight (US Pacific Time) on October 15, 2020, via email to the VP Educational Activities, **John Yeow**, or online using the form found on the **website**.

**Nominations are due by 15 October 2020.**

**[Back to Top](#)**

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## **AWARDS**

### **Call for Awards Nominations**

Nominations are being solicited for the IEEE Nanotechnology Council's 2019 Awards. These are due by 1 October 2020.

Award categories are Early Career, Pioneer and Distinguished Service.

#### **1. 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.

#### **2. EARLY CAREER AWARD IN NANOTECHNOLOGY**

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

#### **3. 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.**

[Back to Top](#)

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## PUBLICATIONS

### Tables of Contents

#### IEEE Transactions on Nanotechnology

View the full current issue of IEEE T-NANO

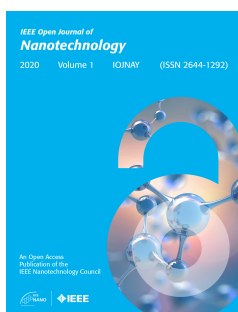
[T-NANO, Volume 19](#)

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, Issue 4](#)

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 3**

For additional information, visit the **IEEE Xplore**  
**website.**

To submit to T-NB, click **here.**

**[Back to Top](#)**

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## CONFERENCES

### IEEE-NANO 2020



### ***Report – 20th IEEE International Conference on Nanotechnology (NANO 2020)***

When the inevitable decision was reached on April 21st to make NANO 2020 100% virtual, there were just 14 weeks for the totally new committee to plan and implement the conference from scratch. Essentially the whole NTC ExCom stepped up, and with the help of a mixture of experienced conference organizers and new recruits the result was a highly successful event, although considerably smaller than usual (and not without its anxious moments.) While most of the authors intending to present papers at the Montreal conference switched to the postponed physical event in 2021, a satisfactory number decided to present virtually in 2020. A new website was developed with a new Call for Papers and a new reviewing team. Although the presentations were all pre-recorded (as “glitch insurance,” the team was committed to live sessions with live Q&A to retain as much as possible of a more traditional conference atmosphere. Of course, live Q&A introduces the time-zone problem which is insoluble but mitigated by having all the recorded presentations available for two days preceding the actual conference dates.

The technical program was comprised of 152 presentations drawn from more than 200 submissions from 34 countries or regions, including 6 plenary talks, with 9 keynote, 25 invited and 84 contributed presentations in three parallel tracks, and 29 posters. The proceedings will be available shortly in IEEE Xplore, but can still be accessed online, with all

the recorded presentations, until the end of August by registering at [2020.ieeenano.org](https://2020.ieeenano.org).

### The Best Paper awards are as follows:



#### Best Conference Paper Award:

“A 3D UV Photodetector Based on TiO<sub>2</sub> Nanoparticles Decorated Microtubular Graphene FET” by Yuning Li, Shasha Li, Yang Zhang, Weijie Yin, Ke Li, Qing You, Tao Deng, Beijing Jiaotong University



#### Best Student Paper Award:

“First Principle Analysis of Os-Passivated Armchair Graphene” by Vipul Kumar Nishad(1), Atul Kumar Nishad(2), Sourajeet Roy(3), Brajesh Kumar Kaushik(3), and Rohit Sharma(1)

(1) Indian Institute of Technology Ropar, (2) National Institute of Technology Warangal, (3) Indian Institute of Technology Roorkee



#### Best Poster Award:

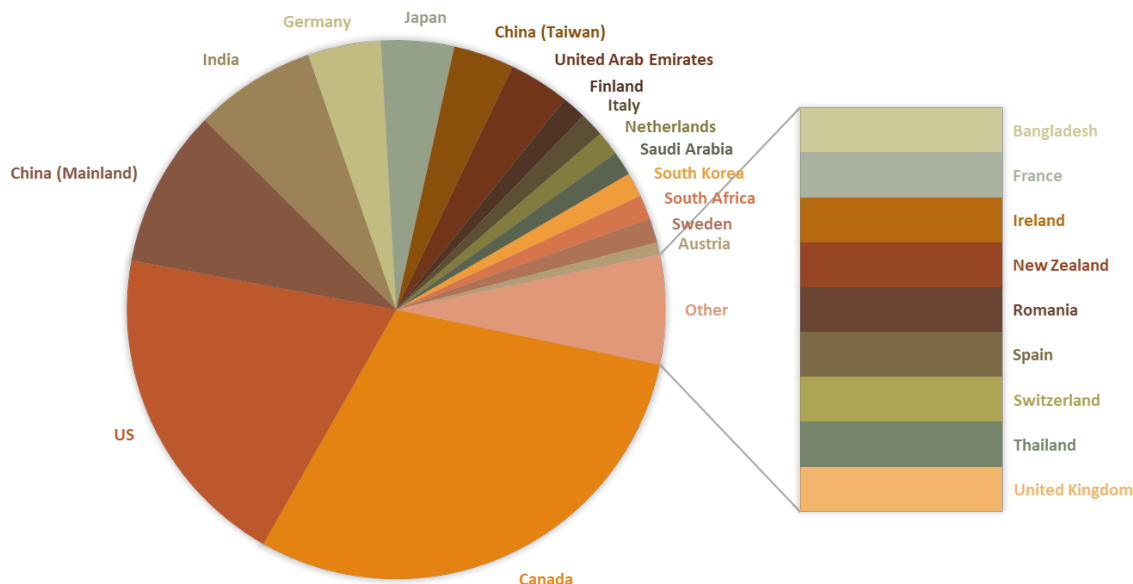
“Optoelectronic Thinning of Transition Metal Dichalcogenides for Device Fabrication” by Suichu Huang(1), Xuezeng Zhao(1), Yuebing Zheng(2)

(1) Harbin Institute of Technology, (2) The University of Texas at Austin

The 20th Anniversaries of both the NANO conference series and of the NTC were celebrated at NANO 2020. Some short video messages by Past-Presidents and Past NANO Chairs, can be found at <https://2020.ieeenano.org/special-events> and the Young Professionals event was based on a panel Q&A discussion by some of these contributors. Other special events included a WIE panel discussion and the awards ceremony.

The distribution of registered attendees (total 137) is shown below. By the end of the conference, there had been 106 downloads of the entire Proceedings (including videos) and 36,594 total “hits” on papers, abstracts, program schedule, proceedings fore-matter, videos, etc.





*Jim Morris and Guangyong Li*  
NANO 2020 General Co-Chairs

## NMDC 2020

18-19 October 2020 | VIRTUAL

### 15<sup>th</sup> Nanotechnology Materials Devices Conference Virtual - Oct 18-19, 2020

<http://www.nmdc2020.org>

2020 Oct 19 <sup>th</sup>	Schedule	Keynote speaker
09:00-09:15 am	Brief Introduction of IEEE Nanotechnology Council	NTC President/Chair
09:15-09:30 am	Review of NMDC	NTC vice chair for conference
09:30-10:00 am	NMDC 2021,2022 promotion	Conference Chairs
10:00-12:00 am	Technical session 1	2 Keynote talks
14:00-17:00 am	Technical session 2	6 Invited talks

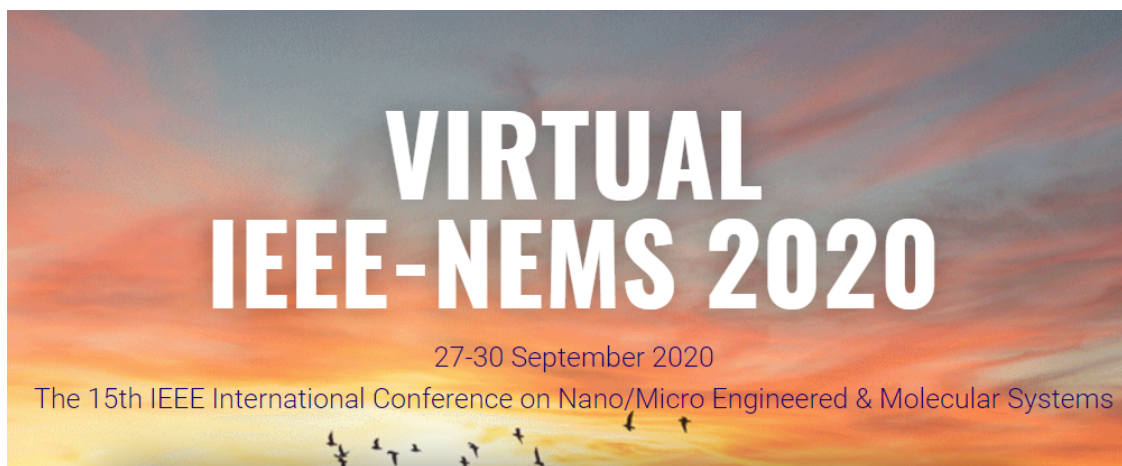
**IEEE NMDC** aims to develop critical assessment of existing work and future directions in nanotechnology research including nanomaterials and fabrications, nanoelectronics, nanophotonics, devices, and integration.

### More Info

## IEEE-NEMS 2020

27-30 September 2020 | VIRTUAL





**The 15th IEEE Int'l Conference on Nano/Micro Engineered & Molecular Systems (IEEE-NEMS 2020) will be held on 27-30 September 2020 in an all-virtual format!**

IEEE-NEMS is a premier conference series sponsored by the IEEE Nanotechnology Council focusing on the promotion of advanced research areas related to M/NEMS, nanotechnology, and molecular technology.

**Registration is open now! Early-bird deadline:** September 10, 2020

**Final Full-Paper and Final-Abstract Deadline Extended:** August 31, 2020

**[More info](#)**

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## IEEE NAP 2020

9-13 November 2020 | VIRTUAL



**Call for Abstracts & Papers are due 31 August 2020!**

**[More info](#)**

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

**[Back to Top](#)**

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