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IEEE Nanotechnology Council Newsletter | January 2021



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EDITOR'S NOTE

Happy New Year! Welcome to the January 2021 issue of the Nanotechnology Council newsletter. This issue brings you the latest updates and activities in the IEEE-NTC community. I hope you enjoy it and do let us know if there is any topic you'd like to see covered in the future.

COUNCIL NEWS

2021 Presidential Appointments

At its November 6th meeting, the Nanotechnology Council ratified the following Presidential appointments. Please join us in welcoming them to our 2021 roster!



Standards Committee Chair

Tyler L. Jaynes

Albany Medical College

[Bio](#)

**Industrial Advisory Committee Chair****Valentine Novosad**

Argonne National Laboratory

Bio**Regional Activities & Chapters Committee****Lan Fu**

Australian National University

Bio**TryNano Editor-in-Chief****James Spicer**

The John Hopkins University

Bio

Division I Representative to TAB-ARC

It is our pleasure to announce that **Malgorzata Chrzanowska-Jeske**, NTC's VP Finance, has been appointed as the IEEE Division I representative to the TAB Awards and Recognition Committee.

Congratulations!

2020 National Innovation Award

Hearty congratulations to Yonhua (Tommy) Tzeng, NTC's Past-President, for receiving the 2020 National Innovation Award, sponsored by the Government Office in Taiwan. This recognition is for using a 3-nm diamond as a drug carrier to

successfully deliver a gene therapy drug through cell membrane to the nucleus and cure an eye disease according to animal tests. **Congratulations!**



IEEE NTC Young Professionals move the needle

contributed by Rafal Sliz, NTC YP Representative



After establishing a position of the IEEE Young Professionals Representative in the Nanotechnology Council, the team has focused on engaging the young NTC members and creating a worldwide network. The NANO2020 conference and hosting of the 20th NTC anniversary are one of the first activities organized by Young Professionals and supported by the President of the Nanotechnology Council – James Morris. As for activities worldwide, the two appointed regional representatives (José Alvim Berkenbrockin - Region 7, and dr. Santhosh Sivasubramani – Region 10) concentrated their efforts on gaining momentum by establishing a virtual presence and organizing a series of webinars on the current topics related to nanotechnology.

The plan for 2021 is to expand our presence in the remaining regions and create a sustainable community of NTC Young Professionals both in academia and industry.

For more information about our activities, visit our LinkedIn or read reports from the webinars, available in the links below:

[NTC YP Canada](#)
[LinkedIn](#)

[NTC YP India](#)
[LinkedIn](#)

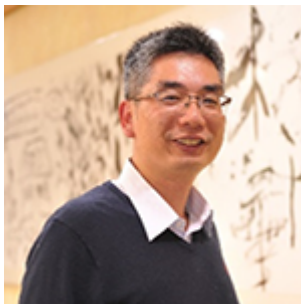
Announcing New Chairs for the NTC TC7 and TC12

The NTC Technical Activities 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 the Chair/Co-Chairs. Each NTC TC is established 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 for NTC TC 7, Inkyu Park, and the New Chair for TC 12, Chih-Huang Li.

**NTC TC 7 Nanosensors and Nanoactuators****Inkyu Park**

KAIST

Bio**NTC TC12 Nanomagnetism****Chih-Huang Lai**

NTHU

Bio

On behalf of the NTC TAC, I would like to thank them both for taking this responsibility and wish them a very successful leadership.

Click **here** for more information.

Kremena Makasheva, VP for Technical Activities

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FELLOWS

2021 IEEE NTC Fellows

Hearty congratulations to the following outstanding members of the NTC community on being elevated (effective Jan 1, 2020) to the rank of Fellow of IEEE!

Click **here** for a list of IEEE Fellows of the Nanotechnology Council.

**Deji Akinwande***The University of Texas, ECE*

for contributions to wafer-scale graphene synthesis and application to flexible devices

David Gracias*Johns Hopkins University*

for contributions to three-dimensional assembly and



origami engineering of nanostructured materials and devices



Paul Weiss
UCLA

for contributions to nanoscience and specifically electronic transport in molecular systems

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EDUCATION

TryNano.org Resource Site



TryNano.org offers broad and updated resources for those interested in exploring or participating in the fields of nanoscience and nanotechnology. The IEEE Nanotechnology Council (NTC) supports this initiative and maintains these resources to encourage professionals, students, and others to be informed about the latest research, trends, and educational opportunities.

We are working continuously in making the TryNano website an important tool in our community. Now that Phase 1 of the website redesign has been deployed, we are working diligently on Phase 2. Feel free to send us your feedback by contacting the TryNano Editor-in-Chief, **[James Spicer](#)**.

IEEE Nanotechnology Council Distinguished Lecturers for 2021

The IEEE Nanotechnology Council (NTC) has appointed its Distinguished Lecturers for 2021. Talks by NTC Distinguished Lecturers can be requested by IEEE student branches; NTC or member Society Chapters; NTC and member Society Conferences; conferences of other IEEE Societies not members of the NTC for major plenary/keynote (based on availability of funding). Please contact the presenter directly to arrange for a presentation.

DL Name: Gwo-Bin Lee

Topic(s): Micro/Nanofluidics for biological applications

DL Name: Jin-Woo Han

Topic(s): Nanomaterials in Printed and Flexible Electronics; Nanoscale Vacuum Electronics: Back to the Future

DL Name: Elena A. Rozhkova

Topic(s): Merging Nanotechnology & Synthetic Biology toward Directed Evolution of Energy Materials; Magnetic Nanostructures for Future Medicine: from Cell Actuation to Ultrasensitive Detection; Nano for BRAIN technologies

DL Name: Han Wang*

Topic(s): Novel Electronic and Photonic Devices based on Low-Dimensional Materials

DL Name: Chengkuo Lee*

Topic(s): Toward 5G based AI + IoT(AIoT) Society Enabled by NanoEnergy-NanoSystem(NENS) Technology

DL Name: Zhang Li*

Topic(s): Magnetic Nanoparticle Swarm for Active Delivery

DL Name: Qing Zhang*

Topic(s): Roles of Semiconductor Junctions in Mechanical-Electrical Power Conversion

DL Name: Oluwaseyi Balogun*

Topic(s): Nanometrology, Nanothermometry, and Imaging of Low Dimensional Materials using Plasmonic Nanofocusing Approaches

DL Name: Reuven Gordon*

Topic(s): Nanoplasmonics: Reaching out to the Single Molecule

DL Name: P M (Markondya Pulugurtha) Raj*

Topic(s): Nanoscale Components and System Integration

**Re-appointment for second year.*

Click [here](#) to learn how to request a DL presentation.

COVID-19 Hub: Your IEEE Resources



Check out the IEEE COVID-19 Hub for regular updates about IEEE members developing technologies to fight the virus, resources available across the IEEE, coping strategies from engineers around the world, and opportunities to get involved in the fight. [Read More](#).

\$10 million KidneyX Artificial Kidney Prize.



This competition from the U.S. Department of Health and Human Services and the American Society of Nephrology is accelerating artificial kidney development toward human clinical trials. Phase 1 seeks component or integrated prototype solutions, and submissions are due **March 24**. [Learn more and explore teaming opportunities.](#)
[More info](#)

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CHAPTERS

Chapters & Regional Interest Groups

The IEEE NTC is expanding worldwide through the addition of new chapters. The Council has begun a three-year initiative to increase significantly the number of NTC Chapters worldwide. If you are interested in starting an NTC Chapter, contact the Chapters Chair, [Lan Fu](#). She will help you with the petition process and chapter startup activities. Support is also available to train new chapter officers on the use of IEEE resources such as vTools to facilitate activities.

The NTC leadership has been cooperating in this growth emphasis by locating and encouraging contacts in their networks to initiate formation petitions. More areas in the world are becoming involved in nanotechnology-related science, engineering and study and interested organizers are welcomed to file petitions to form chapters [here](#).

To see a list of our established Chapters or interested in forming one, click [here](#) for more details.

- [Regional Activities & Chapters Committee Chair](#)
 - [Lan Fu](#), Australian National University
- [Regional Chapter Coordinators](#):

- R1-R7: **Vasuda Bhatia**, San Jose State University
- R8: **Attila Bonyar**, Budapesti Műszaki és Gazdaságtudományi Egyetem
- R9: **Camilo Tellez Villamizar**, Universidad Catolica de Colombia
- R10 (India): **Brajesh Kumar Kaushik**, IIT-Roorkee
- R10 (other): **Zhiming Wang**, UESTC, Chengdu

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PUBLICATIONS

REMINDER: TNANO Special Section on the 20th IEEE NANO 2020

The IEEE Transactions on Nanotechnology (TNANO) seeks original manuscripts for a Special Section on: “20th IEEE International Conference on Nanotechnology (IEEE NANO 2020)”.

Submission deadline: January 31, 2021

Click **[here](#)** for additional information.

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IEEE Transactions on Nanotechnology

View the full current issue of IEEE T-NANO

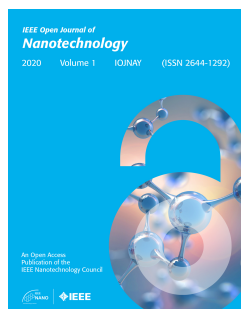
[T-NANO, Volume 20](#)

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 2](#)

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 15, Number 1](#)

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



IEEE Transactions on NanoBioscience

IEEE TRANSACTIONS ON

NANOBIO SCIENCE

View the full current issue of IEEE T-NB

[T-NB, Volume 20, Number 1](#)

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

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

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CONFERENCES

IEEE NANO 2021



Flagship Conference

July 28-30, 2021 | Montreal, Canada

Abstract Submission Deadline: February 28, 2021

[Website](#)

Call for Papers

Nanotechnology researchers will gather to exchange information across disciplines at the 21st IEEE International Conference in Nanotechnology, the flagship conference of the IEEE Nanotechnology Council. We hope you will join us at IEEE-NANO 2021, to be held July 28th–30th, 2021 in Montreal.

The IEEE-NANO 2020 is now calling for abstract submission. Please access the submission system by this link: <https://2021.ieeenano.org/authors/abstract-submission-for-review/>.

Important Dates:

Abstract Submission: **February 28, 2021**

Notice of acceptance: **March 31, 2021**

Submission of paper for proceedings: **May 1, 2021**

Short notice proceedings for exceptional findings: **June 1, 2021**

Notification of short notice proceedings acceptance-revision-rejection: **June 15, 2021**

[View Call for Papers](#)

NMDC 2021



October 17-2, 2021 | Vancouver, British Columbia

Abstract Submission Deadline: May 15, 2021

[Website](#)

Call for Contributions

Papers: Prospective authors are invited to submit high-quality papers reporting original results under the broad theme, and in all areas of nanotechnology materials and devices. Best Conference Papers and Best Student Papers will be awarded. Information for Authors including Submission Instructions and requirements can be found on [these pages](#).

Tutorials and Workshops: As with previous IEEE NMDC conferences, the organizers intend to arrange a program of workshops and/or tutorials to be held prior to the conference. Proposals for tutorials and workshops that address topics related to the conference theme are welcome. Use [this form](#) to contact us.

Exhibits: IEEE NMDC 2021 offers an excellent opportunity for companies with links to nanotechnology to showcase their products and services. Exhibition space is available at the Pinnacle Harbourfront Hotel near the meeting space for the conference technical program. Information on exhibiting can be found on the conference website [here](#).

Information for Authors including Submission Instructions and requirements can be found [here](#).

Important Dates:

Last date for Special Session and Workshop/Tutorial proposals: **March 31, 2021**

Last date for Short Abstract (text only) submission: **April 15, 2021**

Last date for Regular, Special Session and Invited papers submission: **May 31, 2021**

Paper acceptance notification: **July 25, 2021**

Last date for Final Manuscript submission for Regular, Special Session and Invited papers: **August 10, 2021**

Late-Breaking News Extended Abstract Submission: **August 10, 2021**

Late-Breaking acceptance notification: **August 25, 2021**

Pre-registration opens: **August 1, 2021**

Regular registration opens: **September 1, 2021**

[View Call for Papers](#)

IEEE-NEMS 2021



April 25-29, 2021 | Xiamen, China

[Website](#)

Early Bird Registration: March 15, 2021

IEEE 3M-NANO 2021



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

[Website](#)

Full Paper Submission Deadline: May 1, 2021 ([Call for Papers](#))

IEEE DTS 2021



June 7-10, 2021 | Sfax, Tunisia

[Website](#)

Paper Submission Deadline EXTENDED: February 16, 2021 ([Call for Papers](#))

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List of Nanotechnology Council Officers (2021)

President, Jim Morris
President-Elect, Fabrizio Lombardi
Past-President, Yonhua (Tommy) Tzeng
VP Conferences, Jin-Woo Kim
VP Publications, Supriyo Bandyopadhyay
VP Finances, Malgorzata Chrzanowska-Jeske
VP Educational Activities, John Yeow
VP Technical Activities, Kremena Makasheva
Secretary, Edward Perkins

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