

# IEEE NANO 2018 Programme

## Tuesday July 24th

8:00	Registration Opens (Devere Hall)					
	Plenary Session (Devere Hall)					
09:00 - 09:20	Opening Ceremony					
09:20 - 10:00	<b>Keynote 1. Prof. Clivia M. Sotomayor Torres:</b> "Nanophononics: pushing a frontier in Nanoscience and Nanotechnology"					
10:00 - 10:40	<b>Keynote 2. Prof. Gary Rubloff:</b> "From Nanostructures to Mesoscale Architectures: Electrochemical Storage for Smart Things"					
10:40 - 11:30	Coffee Break & Exhibition (Main Restaurant)					
	Parallel Sessions (Kane Building)					
	<b>Parallel#1</b>	<b>Parallel#2</b>	<b>Parallel#3</b>	<b>Parallel#4</b>	<b>Parallel#5</b>	<b>Parallel#6</b>
11:30 - 13:00	<b>Track 3: Nanoelectronics:</b> New Materials I	<b>Track 3: Nanoelectronics:</b> Advanced Memories I	<b>Track 4: Multi-scale Simulation I</b>	<b>Track 5: Nanofabrication &amp; Assembly:</b> Nanofabrication and Lithography	<b>Track 2: Nanoenergy for Smart Things:</b> Nanomaterials for Energy Storage	<b>Track 6: Nanoacoustics I</b>
13:00 - 14:00	Lunch & Exhibition (Main Restaurant)					
14:00 - 15:30	<b>Track 3: Nanoelectronics:</b> Characterisation and Nanowire devices <b>Track 10: Nanosafety</b>	<b>Track 3: Nanoelectronics:</b> New Device Architectures I	<b>Track 12: Nanoscale &amp; Biological Communication</b>	<b>Track 1: Nanoelectrochemical Sensors I:</b> Fundamentals, Design and Simulation	<b>Track 6: Nanoacoustics II</b>	<b>Track 8: Nanomagnetism and Spintronics</b>
15:30 - 17:00	Poster Session & Refreshments (Aula Maxima)					
17:00 - 18:30	<b>Track 3: Nanoelectronics:</b> Brain-Inspired Circuits and Architectures	<b>Track 3: Nanoelectronics:</b> Advanced Process for Semiconductor Devices	<b>Track 5: Nanofabrication and Assembly:</b> Nanostructures for Photonics	<b>Track 1: Nanosensors and Nanoactuators:</b> Piezoelectric Sensors and Actuators	<b>Track 7: Nanophononics I</b>	
19:00	Welcome Reception (Glucksmann Gallery)					

# IEEE NANO 2018 Programme

## Wednesday July 25th

8:00	Registration Opens					
	Plenary Session (Devere Hall)					
09:00 - 09:40	<b>Keynote 3. Prof. John A. Rogers</b> "Growth, Assembly and Integration of Semiconductor Nanomaterials: From Bio-Integrated Electronics to Large Area Micro-LED Displays"					
09:40 - 10:20	<b>Keynote 4. Prof. Rong Chen</b> "Strategies for area-selective atomic layer deposition and applications in catalysis"					
10:20 - 10:40	<b>Invited Presentation: Dr. Odeta Limaj</b> , European Research Council					
10:40 - 11:30	Coffee Break & Exhibition (Main Restaurant)					
	Parallel Sessions (Kane Building)					
	<b>Parallel#1</b>	<b>Parallel#2</b>	<b>Parallel#3</b>	<b>Parallel#4</b>	<b>Parallel#5</b>	
11:30 - 13:00	<b>Track 3: Nanoelectronics: New Materials II</b>	<b>Track 3: Nanoelectronics: Advanced Memories II</b>	<b>Track 1: Nanoelectrochemical Sensors II: Fabrication, Systems and Applications</b>	<b>Track 4: Multi-scale Simulation II</b>	<b>Track 2: Nanoenergy for Smart Things: Energy Harvesting and Conversion I</b>	
13:00 - 14:00	Lunch & Exhibition (Main Restaurant)					
14:00 - 15:30	<b>Track 3: Nanoelectronics: 2D Materials</b>	<b>Track 3: Nanoelectronics: New Device Architectures II</b>	<b>Tracks 2&amp;4: Nanoenergy for Smart Things: Simulation of Materials for Energy Harvesting and Storage</b>	<b>Track 1: Nanosensors and Nanoactuators: Biophotonics</b>	<b>Track 7: Nanophononics II</b>	
15:30 - 17:00	Poster Session & Refreshments (Aula Maxima)					
18:00	Transfer to Conference Banquet ("Big Shed" at Ballymaloe House)					

# IEEE NANO 2018 Programme

## Thursday July 26th

8:00	Registration Opens					
	Plenary Session (Devere Hall)					
09:00 - 09:40	<b>Keynote 5. Prof. Deirdre M. O'Carroll:</b> "Metasurfaces for Light Management in Semiconductor Thin Films"					
09:40 - 10:20	<b>Keynote 6. Prof. Debdeep Jena</b> "Gallium nitride based nanoscale devices: What's new and why is it exciting?"					
10:20 - 11:00	Coffee Break & Exhibition (Main Restaurant)					
	Parallel Sessions (Kane Building)					
	<b>Parallel#1</b>	<b>Parallel#2</b>	<b>Parallel#3</b>	<b>Parallel#4</b>	<b>Parallel#5</b>	
11:00 - 12:30	<b>Track 3: Nanoelectronics: New Materials III</b>	<b>Track 3: Nanoelectronics: Novel Devices and Processes</b>	<b>Track 4: Multi-scale Simulation III</b>	<b>Track 1: Nanosensors and Nanoactuators: Materials Design and Development</b>	<b>Track 1: Nanosensors and Nanoactuators: Surface-enhanced Raman Spectroscopy</b>	
12:30 - 13:30	Lunch & Exhibition (Main Restaurant)					
13:30 - 15:00	<b>Track 3: Nanoelectronics: Graphene Based Devices</b>		<b>Track 2: Nanoenergy for Smart Things: Energy Harvesting and Conversion II</b>	<b>Track 4: Multi-scale Simulation IV</b>	<b>Track 7: Nanophononics III</b>	
	Plenary Session (Devere Hall)					
15:00 - 15:30	Coffee Break					
	Invited Industry Session: "Opportunities & Challenges for Smart Things"					
15:30 - 16:00	<b>Dr. Michael Kane, Boston Scientific</b> "Nano Tech Challenges for the Implantable Medical Device Space"					
16:00 - 16:30	<b>Dr. Bert de Colvenaer, ECSEL</b> "A Public Private Partnership on Electronic Components and Systems: the ECSEL JU"					
16:30 - 17:00	<b>Dr Jason Lynch, Analog Devices</b> "Making the IoT Promise a Reality: Semiconductor Needs for the First Billion Nano-Enabled Smart Things"					
17:00 - 17:35	<b>Awards and Closing Ceremony (Devere Hall)</b>					

