The island of Rhodes
The island of Rhodes (Rodos in Greek), one of the most popular destinations in Greece, is situated in the southeast of the Aegean Sea. It is the largest island in the Dodecanese Complex and the fourth biggest in Greece. It has a long & multi-cultural history, a rich natural environment, beautiful beaches and modern tourist facilities.

Conference Venue - Accommodation
Rodos Palace Hotel is a wonderful hotel that inspires and awakens the senses. Taste the authentic flavors of eternal Greek summer, with the gentle Mediterranean sun and the sea breeze that soothes your mind and soul. Smell the idyllic aromas of nature, carried away by the overwhelming colors. Hear the waves reaching the shore, as you walk barefoot on the beach.

Rodos Palace International Conference Center is the epitome of conference connoisseurs, with an impressive international reputation in holding all kinds of conferences and events.

Transportation
Rhodes is only a 40min flight from Athens International Airport. Rhodes International Airport, “Diagoras”, is located 15 km away (20min by taxi from the town center and the convention center. Public transportation is very well organized with frequent bus service. There are regular international flights as well as charter flights from most major cities worldwide.

Weather
Rhodes in September is still very pleasant and warm, although the temperatures are starting to cool down a bit. The average daily temperature is 25°C. September enjoys an average of 11 hours of sunshine per day.

Passports - Visas
You will need valid, up-to-date passport and a Schengen visa, depending on your nationality. Regarding Schengen visa requirements, please visit the website of the Hellenic Ministry of Foreign Affairs at the following link: https://www.mfa.gr/en/visas/visas-for-foreignerstraveling-to-greece/countries-requiring-or-notrequiring-visa.html in order to find out whether you need a Schengen visa to visit Greece.

Social Events
Welcome Reception
Excursion to the surroundings of Rhodes
Special Program for accompanying persons

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**MNE INTERNATIONAL STEERING COMMITTEE**

- **Anja Boisen**, Technical University of Denmark (DK)
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- **Christophe Vieu**, LAAS-CNRS Toulouse (FR)

**MNE INTERNATIONAL PROGRAM COMMITTEE**

All submitted abstracts will be evaluated by the MNE 2019 International Program Committee (http://mne2019.org)

**MNE 2019 ORGANISING COMMITTEE**

- **Evangelos Gogolides** Conference Chair
- **Angeliki Tserpei** Program Chair

**Conference Co-Chairs per topic:**

1. **Advanced Patterning (Lithography & Etching)**
   - Panagiotis Argitis, Vassilios Constantoudis, Nikos Kehagias, George Kokkoris
   - Eleni Makarona, Nikos Papanikolaou, Vasilis Vamvakas, Kosmas Ellinas

2. **Nanofabrication**
   - Panagiota Petrou, Kostas Misiakos, Katerina Tsougeni
   - Ioannis Raptis, Kosmas Ellinas

3. **Life Sciences Devices**
   - Ioannis Raptis, Kosmas Ellinas
   - Konstantinos Giannakopoulos
   - Nikos Vourdas

4. **Micro & Nano Devices and Systems**
   - Ioannis Raptis, Kosmas Ellinas
   - Konstantinos Giannakopoulos
   - Nikos Vourdas

5. **Technical Program**
   - **Welcome Reception**
     - **Monday September 23rd**, 2019 in the evening
   - **Technical Program**
     - **starts on Tuesday September 24th**, 2019 ends late evening on **Thursday September 26th**, 2019
   - **Workshops and Courses**
     - **September 23rd** and / or **27th**, 2019
   - **Micrograph Contest, B2B meetings** throughout the conference
   - **Technical Exhibition**
     - **September 23rd–26th**, where exhibitors can display tools, materials, devices and software to the community

**BACKGROUND INFORMATION FOR MNE**

Micro and Nano Engineering (MNE) is a large international conference focusing on: A) micro/nanofabrication and manufacturing techniques, and B) application of the fabricated micro/nanostructures, devices and microsystems into electronics, photonics, environment, chemistry and life sciences.

MNE 2019 will be the 45th conference in a series that started in Cambridge in 1975, and was held most recently in Vienna (2016), Braga (2017) and Copenhagen (2018). In 2019, MNE will return to Greece after 11 years. It is expected to attract more than 750 participants.

The 3-day conference format includes 4 parallel sessions, plenary talks, invited presentations, oral and poster presentations (evaluated by the International Program Committee), and a commercial exhibition. MNE poster papers have equal weight to oral presentations.

The MNE Committees encourage authors to submit papers (regular, accelerated publications, reviews or news and opinions) to 4 open thematically focused issues of Microelectronic Engineering (MEE by Elsevier) related to the conference topics. MEE also sponsors the annual Young Investigator Award, which will be presented at the conference.

MNE has two related conferences (EIPBN) in the USA, and (MNC) in Japan. It is a tradition that the author of the “Best Paper” of at least one of these related conferences is giving an invited talk at MNE.

**CONFERENCE STRUCTURE**

- **Welcome Reception**
  - **Monday September 23rd**, 2019 in the evening

SCOPES OF MNE 2019

1. **Advanced Patterning (Lithography & Etching)**
   - This topic is mainly addressing the semiconductor research and industry, and secondly other research and manufacturing sectors, where lithography and pattern transfer are important. Contributions should be focused on the lithographic material, lithographic process, metrology as well as on advanced etching and patterning.

2. **Nanofabrication/Manufacturing for Functional Structures/Surfaces**
   - This topic aims at presenting novel approaches or improvements in fabrication of nanostructures, surfaces or nanomaterials in 0D, 1D, 2D, or 3D including biomimetic architectures, as well as demonstrating (multi)functionality and other properties of the developed nanostructures or surfaces. Topics here include, but are not limited to:
     - Nanofabrication (other than nanopatterning), Micro- and Nanomanufacturing, Plasma Surface Engineering, 3D Nanomanufacturing, 3D Microprinting and Rapid Prototyping, “Smart” (multi)Functional Surfaces with Wetting, Optical and/or Biological Functionality, 2D Materials, Metamaterials, Nanometrology of Structures and Surfaces.

3. **Micro-Nano Devices and Systems (MEMS/NEMS)**
   - Physical applications, electronics, photonics and energy.
   - This topic encompasses the use of micro/nano fabrication methods for building up new solutions for application areas in Physical disciplines such as Nanoelectronics, Photonics, Plasmonics, Physical Sensing and Energy Harvesting. The solutions can be in the form of devices or complete systems. Contributions should not only describe the fabrication procedure, but should also include demonstration of the applications and integration steps. This topic includes, but is not limited to:

4. **Micro & Nano Devices and Systems for Life Sciences, Chemistry, and Agrofood Sectors**
   - Contributions to this topic should address biological, biochemical, analytical, food and agrofood monitoring and safety problems and show how micro/nano engineering can provide the appropriate solution, starting from microfluidics, scaffolds, biosensors, all the way to BioMEMS, Lab-on-a-chip and Health Monitoring. Targeted areas can be: