### 1st School on «NanoEnergy and Nanosystems»

### Rome, June 13-14, 2016

The **School** will cover the fundamentals on **NanoEnergy and NanoSystems**, ranging from basic theory to devices and applications.

The **School** will comprise **6 Lectures** and **2 Round-Tables** (see the Program below).

Taking into account the cross-disciplinary nature of the audience, **each Lecture** is divided into two parts:

- Tutorial
- Seminar

The **Tutorials** will introduce all the key concepts needed during the **Seminars** and will be easily followed by anyone who is familiar with the general math, physics and chemistry taught in B.Sc. Engineering/Physics/Chemistry.

The **Round Tables** will offer advice from leading experts on how to perform effective research and how to bring innovative devices on the market.

Who should attend? The School is ideal for anyone with an interest in NanoEnergy and NanoSystems, including students, researchers, professors.

Pre-registration is open (<a href="mailto:falconi@eln.uniroma2.it">falconi@eln.uniroma2.it</a>). Limited places available only!

### **School Program**

### First Day (June 13 – Monday)

9:00 – 10.30	Philip Kim	Materials in 2-dimension and beyond: 10 years after graphene
11:00 – 12:30	Christian Falconi	Electronic instrumentation for NanoEnergy and NanoSystems
13:00	Lunch	
14:00 – 15:30	Zhong Lin Wang	Introduction of nanogenerators
16:00 – 17:30	Sang-Woo Kim	New Energy Harvesting with Nanogenerators for Self-Powering Small Electronics

## 1<sup>st</sup> School on «NanoEnergy and Nanosystems»

Rome, June 13-14, 2016

## Second day (June 14 – Tuesday)

9:00 - 10:30	Zhong Lin Wang	Introduction of piezotronics
11:00 – 12:30	Luigi Occhipinti	How to design and manufacture reliable and cost- effective flexible and disposable electronic devices
13:00	Lunch	
14:00 – 15:30	Max Migliorato	Theory of Piezoelectricity in Polar Semiconductors
16:00 – 17:00	Round table I	How to make effective research on NanoEnergy and NanoSystems (Introduction: Prof. Zhong Lin Wang; moderator: Prof. Arnaldo D'Amico)
17:00 – 18:00	Round table II	How to bring innovative devices on the market (Introduction: Dr. Luigi Occhipinti; moderator: Prof. Arnaldo D'Amico)

## The teachers



### Arnaldo D'Amico

Introduction to questions and answers (for all the lectures)

**Moderator for the Round Tables** 

University of Rome Tor Vergata
(Professor Emeritus)

### 1st School on «NanoEnergy and Nanosystems»

Rome, June 13-14, 2016



## **Zhong Lin Wang**

**Introduction of nanogenerators** 

**Introduction of piezotronics** 

**Introduction to Round Table I** 

Georgia Institute of Technology, USA
Beijing Institute of Nanoenergy and Nanosystem,
Chinese Academy of Sciences, China
http://www.nanoscience.gatech.edu/



## Luigi G. Occhipinti

How to design and manufacture reliable and cost-effective flexible and disposable electronic devices

**Introduction to Round Table II** 

University of Cambridge, United Kingdom www.largeareaelectronics.org



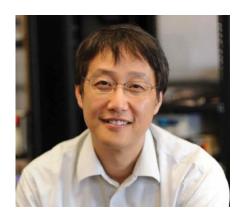
## Sang-Woo Kim

New Energy Harvesting with Nanogenerators for Self-Powering Small Electronics

SKKU, Republic of Korea http://nesel.skku.edu

## 1st School on «NanoEnergy and Nanosystems»

Rome, June 13-14, 2016



### **Philip Kim**

Materials in 2-dimension and beyond: 10 years after graphene

Harvard University, USA <a href="http://users.physics.harvard.edu/~pkim/">http://users.physics.harvard.edu/~pkim/</a>



## **Max Migliorato**

Theory of Piezoelectricity in Polar Semiconductors

University of Manchester
<a href="http://www.manchester.ac.uk/research/max.migliorato/">http://www.manchester.ac.uk/research/max.migliorato/</a>



#### **Christian Falconi**

**Electronic measurements for NanoEnergy and NanoSystems** 

University of Rome Tor Vergata – IDASC CNR http://next.uniroma2.it/