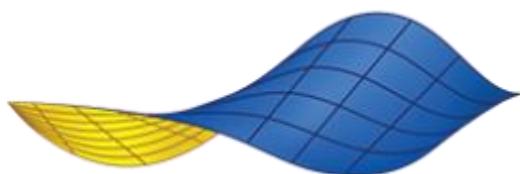




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**THINFACE**  
European Training Network



Image taken by Arkadiusz Goszczak.

## **Thinface a network for organic electronics**

**The network is complete**

After a long period of changes of partners in the network all seems to fall in place now and the network is consolidated. Our new partners, the Technical University of Dresden and Abengoa Research handed in all necessary papers and also SDU finalized the necessary steps to take over the part from Danfoss. It has been a busy time especially during summer to get everything in place. Both Abengoa and TUD employed each a new PhD and they started their work already. You will find short introductions to Laura Calio, who started at Abengoa Research and to Bernhard Nell at TUDresden in this Newsletter. At SDU we're just waiting for the work permit of our last PhD and expect this process to be finalized in the beginning of January. So all 14 PhD candidates are in place. Below you find a list of all of them, where they work and their contacts.

Project	PhD Candidate	Partner	E-Mail
SR 1	Shashank Hariviyasi	TUG	<a href="mailto:hariviyasi@tugraz.at">hariviyasi@tugraz.at</a>
SR 2	Myles Rooney	UMB	<a href="mailto:miles.rooney@unimib.it">miles.rooney@unimib.it</a>
SR 3	Weike Wang	nanoGUNE	<a href="mailto:w.wang@nanogune.eu">w.wang@nanogune.eu</a>
SR 4	Chloé Rodriguez	UAM	<a href="mailto:chloe.rodriguez@uam.es">chloe.rodriguez@uam.es</a>
SR 5	Moritz Müller	nanoGUNE	<a href="mailto:m.muller@nanogune.eu">m.muller@nanogune.eu</a>
SR 6	Mr Abhilash Ravikumar	UMB	<a href="mailto:a.ravikumar@campus.unimib.it">a.ravikumar@campus.unimib.it</a>
SR 7	Mina Mirsafaei	SDU	<a href="mailto:mirsafaei@mci.sdu.dk">mirsafaei@mci.sdu.dk</a>
SR 8	Anton Fernandez-Fernandez	TUG	<a href="mailto:anton.fernandez@tugraz.at">anton.fernandez@tugraz.at</a>
SR 9	Bernhard Nell	TUD	<a href="mailto:bernhard.nell@iapp.de">bernhard.nell@iapp.de</a>
SR 10	Paola Pellacani	UAM	<a href="mailto:paola.pellacani@uam.es">paola.pellacani@uam.es</a>
SR 11	Laura Calio	AR	<a href="mailto:laura.calio@abengoa.com">laura.calio@abengoa.com</a>
SR 12	Mehrad Ahmadpour	SDU	<a href="mailto:ahmadpour@mci.sdu.dk">ahmadpour@mci.sdu.dk</a>
SR 13	Mr. Mattia Farronato	UPMC	<a href="mailto:mattia.farronato@insp.jussieu.fr">mattia.farronato@insp.jussieu.fr</a>
SR 14	Golnaz Sherafatipour	SDU	<a href="mailto:golnaz.sherafatipour.007@student.lu.se">golnaz.sherafatipour.007@student.lu.se</a>

This file can be found on the Sharepoint for our network.



# Thinface Summerschool 2015

## A brilliant start

For nine of our PhD students this was the first time they met. Some of them weren't even employed yet. As the picture indicates all had a really good time enjoying a mixture of lectures and live in Sønderborg in the spare time. Altogether 32 students participated in our summer school. The students came from 8 European countries and spent a week of their summer with us. In total 14 scientists gave lectures or insights into their industries. The topics ranged from organic photovoltaics to organic electronics, device fabrication, device stability and interface issues in such systems.



Apart from attending the lectures the students had the chance to explore the town and meet in several locations in the evening with lecturers or on their own. Soon they developed new friendships and enjoyed themselves exploring the possibilities that Sønderborg offers. We liked the comments like 'A wonderful summer school' and 'Sehr schöne Sommerschule' and 'Many thanks' and 'This was a very good summer school.' from lecturers and participants.

The Marie Curie Program expects its participants to travel around a lot to other partners also from industry and to actively be involved in many activities as summer schools or open house or being ambassador in schools or public for the program and the topics they work on.

For questions related to the Thinface project or the Marie Curie Initial Training program please contact Katharina Rubahn or Morten Madsen.



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## Introducing

Laura Calio, Bernhard Nell and Myles Rooney



Laura Calio is from Montauro, a little village situated in Calabria, in the south of Italy. She finished her Bachelor Degree at the University of Calabria and attended the ERASMUS project at the University of Zaragoza during her third year, where she passed her latest exams. This extensive traveling experience has offered her many opportunities to adapt to new environments and to learn how important it is to be flexible and make use of own resources. She graduated from the University of Bologna and achieved a Master of Science degree in Organic Chemistry. In both careers that she has done she did two internships in organic synthesis laboratories that gave her a good introduction into the world of scientific research. Her first internship was at CEMIF.CAL laboratory of University of Calabria where she studied all principal organic synthesis methods and the most important techniques of purification and characterization. In particular she focused on organometallic synthesis for application in dye-sensitized solar cells.

Furthermore in the latest internship at the University of Bologna she learned about medicinal chemistry. She focused on peptide and nanoparticles synthesis and characterization for applications in nano medicine. These experiences have reaffirmed her interest in this field of work and she became more enthusiastic to learn more and improve her abilities. She has always been passionate about scientific research and loves to take the opportunity to utilize the knowledge and the little experience she gained from her formal studies in chemistry to do what she loves and to give her little and modest contribution to scientific research.

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Bernhard Nell is from Austria and 29 years old. He grew up in a small village near Graz, where he studied Technical Physics at the Graz University of Technology (TUG). During his master's project he investigated point defects of highly doped silicon using high-resolution laser-dilatometry. Since November 1, he is PhD student within the THINFACE project at Dresden University of Technology (TUD). He will work on organic/organic semiconductor interfaces. Bernhard applied for the THINFACE project, because he thinks it is great to work in a multinational environment and to spend some time abroad while trying to improve and understand organic photovoltaics, that could play a key role in the future use of renewable energy sources. Besides that, he loves to take the opportunity and meet all the different people from different countries, that are part of the project. In his spare time he likes hiking in the mountains, snowboarding

and playing football, but he also enjoys reading a book or watching a movie. He is looking very much forward to meet all of the others in person during future summer-/winter schools or workshops.

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Myles Rooney was born in London in 1991, he immediately moved to Dublin, Ireland where he grew up. He recently graduated from Dublin City University (DCU) with an honours in Chemical and Pharmaceutical sciences 2014 with an experimental project on the design of new potassium channel inhibitors as a therapeutic for multiple sclerosis. Myles also has a small amount of experience working with Temmler Ireland Ltd as a process chemist on a production line for a variety of pharmaceutical materials. He has recently began his PhD in the field of materials for Bulk heterojunction Solar cells. A completely new field of chemistry for him which offers many new interesting ideas and exciting learning experiences. Myles is currently enjoying his research with Dr.Luca Beverina's group at Milano-Bicocca. The work is challenging yet impelling and Myles is very enthusiastic about learning and developing this area of material science. He is excited by the prospects of working within a large network such as THINFACE as he feels it is a great opportunity to develop interdisciplinary relationships that would otherwise be difficult to build. He is looking forward to meeting others from the group in the near future. Moving to a foreign country has not been too difficult for Myles as he has lived abroad previously. Although Milan does feel like a

very Large city compared to Dublin and getting to know the city takes time. The main difficulty he has had to face is learning the Italian language as he had never spoken a word of it before moving over (an ongoing difficulty).

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## EU call of interest

H2020-NMP-2015-two-stage Sub call of: [H2020-NMP-2014-2015](#)

<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2507-nmp-23-2015.html>

Deadline: March 22, 2015 first stage

Specific challenge: Many technologies with significant socio-economic benefits face material requirements that are, or may be, problematic due to their unstable, insecure or price-volatile supply. Research is needed in particular to improve our fundamental understanding of the development of new material solutions with a reduced or completely eliminated critical content, while maintaining or enhancing the performance of the materials, components and products. Examples may be the critical raw materials (see COM(2011)25 and related documents) or those materials which may be hazardous or pose a risk to human health and/or the environment.

Please address suggestions to Luca Beverina or to Katharina Rubahn.

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## Poster Awards

Congratulations to Anton Fernandez and Paola Pellacani



Paola Pellacani won the Poster Award in the 74th IUVSTA workshop. The 74th International Union of Vacuum Science, Technology and Applications was held from 3rd to 7th November in Frejus (France) dealing with the topic of Biomaterials compatibility with Blood. The award, sponsored by the Journal "Biointerphases", recognized the contribution of the poster to the understanding of nanoplasmonic devices for their use as Biosensors.

- Transfer of knowledge in the fabrication of porous silicon structures.

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Antón Fernandez went to the ICOE (international conference on organic electronics) in Modena, Italy in June 2014. There, he won the poster award for presenting his Master project .

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## Open house events at our partners



In Graz and in Paris our partners hosted open house events that were encouraging and motivating for their work. Graz was the first one and took already place on April 4, 2014, right after Antóns start in the group. Nice pictures and a report can be read [here](#).

Mattia Farronato in Paris was busy on the 22nd of October to introduce the network to PhD students at UPMC. He said that none of them was aware of such a network. Have a look on his [poster](#).

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## Events

### **EMN, Energy Materials Nanotechnology meeting on Photovoltaics.**

Orlando (USA), January 12-15.

As a special theme of EMN series, the 2015 edition of the EMN Photovoltaic Meeting covers the most recent advancement in photovoltaics, from fundamentals, materials science, devices, systems and reliability, through policy and PV deployment acceleration. We hope to bring together leading scientists, researchers, scholars and engineers from academia, R&D laboratories and industry around the world to exchange, share and learn the most interesting work done recently.

Topics:

Dye-sensitized	Solar	Cell
Hybrid	Solar	Cells

Logistics and Potential of CPV and Hybrid CPVT Systems  
Nano-structured materials for energy conversion and storage  
OPV Materials and Systems  
Quantum-Dot Solar Cells  
Ternary and Multinary Compounds and Related Solar Cells  
Ultrafast Spectroscopy of Quantum Dot Materials for Solar  
Energy  
EMN General Workshop on Photovoltaics  
<http://emnmeeting.org/pv/>

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**The European-Winter School on Physical Organic Chemistry**  
(E-WiSPOC), at its ninth edition, will take place in Bressanone  
(Italy) on February 1-6, 2015.  
The topic of the 2015 edition is Chemistry and Chemical  
Processes in Confined Spaces.  
The objective of the School is to introduce the methods for the  
design, preparation, characterization and use of nano and  
microsystems containing molecular structures whose  
physicochemical properties are determined by the environment in  
which they are confined. The most important applications, that  
involve areas such as sensors, catalysis, photonics, solar energy  
conversion will be presented and discussed by leading scientists  
in the field.

[www.chimica.unipd.it/wispoc](http://www.chimica.unipd.it/wispoc)

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**Thinface Winter School 2015: From PhD to Business –  
Management Know-how for Engineers and Scientists,**  
February 2-6, 2015, Miraflores de la Sierra, Spain.  
**Deadline for registration: January 10, 2015**  
<http://thinface.eu/thinface-winter-school-2015/>

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**Thinface and PCAM Summer School 2015: 7<sup>th</sup> School on**

**Organic Electronics - from Semiconductor to Biomolecular Interfaces**, September 14-18, 2015, Lake Como, Italy  
<http://oeri.lakecomoschool.org>