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Nr.9



Welcome to our 9th Thinface Newsletter which is also meant to be for the PCAM network.

At Abengoa the team around Shahzada managed to get a second patent. Congratulations from our side!

Overall in the network a lot of secondments are taking place or just finished, encouraging the exchange of knowledge and instrumentation. We look forward to two network events, a summer school in San Sebastian and a workshop in Cracow. Enjoy reading.

Yours,
Katharina Rubahn



Scientific Breakthrough

Organic Hole Transport Materials for opto-electronic devices

Shahzada Ahmad, Samrana Kazim, Laura Calio, Manual Salado, 2016, Patent Application No. P201631098

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Blanco' in Sevilla in October.

www.100re-conference.org



100% Conference reveals need to study successful green-tech start-ups

Scientists and practitioners joined in discussion of future renewable energies at the binational series of annual conference on renewable energy and climate neutrality.



“Go International! Go Abroad!” at SDU

An activity to get students activated in international programs.



Read our recent publications:

Hole transport materials for perovskite solar cells. L.Calio, S. Kazim, M. Grätzel and S. Ahmad, *Angewandte Chemie International Edition*, 2016,
DOI: 10.1002/anie.201601757

The influence of mixed organic cation ratio in lead iodide based perovskite on the performance of

Phys. Chem. Chem. Phys., 2016,18,
27148-27157

DOI: 10.1039/c6cp03851d

**Near-infrared roll-o -free
electroluminescence from highly
stable diketopyrrolopyrrole light
emitting diodes.**

Mauro Sassi,
Nunzio Buccheri, Chiara Botta,
Francesco Bruni, Umberto
Giovanella, Sergio Brovelli Luca
Beverina. Sci. Rep. 6, 34096,
DOI: 10.1038/srep34096 (2016)

[Get an overview on all publications.](#)



**PhD positions and Postdoc
positions are available in San
Sebastian, Jena and Milan**

**Postdoctoral Researcher at
NanoGUNE, San Sebastian, Spain**

One Post-doctoral position in
Organic Spintronic/Electronic
Devices 2D-INK is offered in the
Group of Dr. Luis E. Hueso.

[Details](#)

PhD position at University of Jena

One PhD position (4 years) in
theoretical solid state physics funded
by the H2020 FET-Open Research
and Innovation action via the project
SiLAS is open in the group of Prof.
Silvana Botti at the Friedrich-Schiller
University of Jena, Germany.

[Details](#)

A post-doc position lasting 24 months is available at the group of Gian Paolo Brivio and Guido Fratesi.

[Details](#)



EU-Calls of interest

[MSCA-ITN](#), Call opens September 15, 2016 and Closes January 10, 2017

[MSCA Cofund](#). Call opens April 5, 2017 and Closes September 28, 2017



Two Thinface events are in preparation: a workshop in Cracow and a summer school on 'Surfaces and Interfaces' in San Sebastian. More information will be announced on our [webpage](#). Here you will also find information on other Events.

Participation in the White Night Festival in Seville

On the evening of 7th October, 2016 in Seville, the 5th edition of the “Noche en Blanco”, the “White Night Festival” took place. A lot of cultural organizations coordinated many interesting educational events, located in different venues throughout the city. The motto of the evening was to bring people closer to culture and science, and so more than 140 activities like expositions in museums and theaters, conferences and essays were organized during the night with more than 80.000 attendees.

In order to get the people close to science and in particular to attract their interest towards renewable energy and raise their awareness of the photovoltaic technology, I represented “THINFACE” in this Festival with a

The event was promoted through the social media (Facebook, Twitter...) and by the White Night Festivals Website:

<http://sevillasemueve.org/nocheenblanco2016/actividad/laura-calio-el-futuro-de-las-energias-renovables-celdas-solares-que-simulan-la-fotosintesis/>

For better visualization and to attract the attention of the visitors I also prepared a few posters and an educational video that explains in an easy and interactive way the development and the evolution of photovoltaic technology during time and introduces the 3rd generation solar cells, in particular the perovskite-based solar cells. A lot of people actively participated, many of them were involved in the discussion about climate change.

Many young people also showed their interest in the field, asking a lot of questions about the state of the current generation of photovoltaic technology. Most of the visitors/ attendees complained about their lack of information regarding the subject and were very keenly interested in the presentation and how the photovoltaic technology evolved through time.



For this reason I believe that keeping the people properly informed about the scientific progress about our research is extremely important, and that outreach activities are as necessary as scientific dissemination in the work of a researcher. To educate the society at large should also be one of the aims of researchers.

100% Renewable Energy Conference highlights a variety of technologies to solve our future energy problems

As a part of a binational series of annual conferences on renewable energy (even years, Flensburg) and climate neutrality (uneven years, Sønderborg) in the German-Danish border region this year's conference was hosted on October 4 and 5, 2016 by Flensburg University of Applied Sciences and organized in collaboration with Europa-Universität Flensburg and the University of Southern Denmark (SDU).

During two days about 300 participants discussed the future of renewable

the International Green Entrepreneurship Forum (IGEF), in-depth insights were given into the green economy in Northern Europe, on green-tech business models as well as on aspects of entrepreneurial finance, local networking in the green energy market and green innovation in small and medium sized companies. "Promising innovations and upcoming green-tech business models, such as organic solar cells and the efficient reuse of waste heat, show a great potential and will substantially change our markets and therefore contribute to making our planet worthwhile living not only for us but also for the future generations", says Dr. Silke Tegtmeier from MCI in Sønderborg.

The PhotoVoltaics (PV) track focused on upcoming and new technologies within different areas of photovoltaics including both Silicon, organic and hybrid PV. The talks given by experts like Tom Aernouts from IMEC and Roger Hiorns from IPREM included details on state-of-the art methods for improving device performance and stability as well as production and up-scaling methods for new technologies. "It is doubtless important to keep a focus on different technologies within the PV landscape, as those will be complementary technologies on the future energy market", stated Dr. Roger Hiorns from CNRS/IPREM.

The next partner conference on 100% Climate Neutrality will take place on October 4 and 5, 2017 at the SDU campus in Sønderborg (www.climateneutral.eu).

"Go International! Go Abroad!" at SDU

On September 29, 2016, the Sønderborg campus of University of Southern Denmark organized a "Go International! Go Abroad!" event for its bachelors' and masters' students. The event was focused on encouraging these students to take part in European and international student exchange programmes. There were presentations from representatives of SDU International office, SDU business office, a student of SDU who had been a part of similar exchange programme and me. This was followed by a two hour session of one-to-one discussion where students could discuss their apprehensions in more detail and seek further guidance for their specific queries from the international office as well as other exchange students.

Taking advantage of the opportunity to engage with students, I presented to them my experience of being in the THINFACE network, the joy of going on

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I talked about how going abroad would open up their perspective and eventually add bonus points to their CVs. Having the last talk of the session, I ended on a prep-talk note by showing them photographs from various places I have been and friends I have made as a part of the THINFACE network; hoping all along that this would inspire them to go for exchange and expand their horizons.

-Shashank S. Harivyasi



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