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1 Highlight

1.1 National Young Academies gather in Halle Germany
The third day of the GYA’s Annual General Meeting in Halle, Germany, featured a meeting of representatives from 27 national young academies (NYAs), similar bodies and networks and NYA Initiatives, including from countries such as Bangladesh, China, Croatia, Germany, Hungarian, India, Indonesia, Israel, Ivory Coast, Japan, Korean, Nepal, New Zealand, Panama, South Africa, Spain, Thailand, The Netherlands, Uganda, UK and USA among others.

https://globalyoungacademy.net/national-young-academies-gather-in-halle-germany/

Prof Nguyen T. K. Thanh and Associate Professor Martin Dominik not only presented the VYA, but also has significant contributed to the discussion on the program of the 4th Worldwide Meeting of Young Academies (WWMYA), which will be held at Duy Tan University, Da Nang, Viet Nam during the 31th July and the 2nd August 2019 as well as sharing experience of VYA to many other countries would like to establish their NYAs.

Photo 1: Breakfast meeting of National Young Academy representatives at Leopoldina Academy of Sciences, Halle, Germany, May 2019. Pictured by Nguyen Thi Kim Thanh.
1.2 Travel grants to attend Danang Meetings

We are delighted and very grateful to have support from Vietnam Embassy in London, Vietnamese Ministry of Foreign Affair and Ministry of Education and Training and Ministry of Science and Technology, GYA, Duy Tan University and Vietnam Korean Friendship Information Technology College our very important meetings.

VYA is applying for a grant to support the Da Nang meetings (WWMYA and Nanomaterials for Healthcare Meeting). The application is to give support to Vietnamese researchers to go to the conference, given that they will make an application to join VYA before the conference. Please contact us urgently to be included in the list as a potential awardee for travel grant.

1.3 Nanomaterials for Healthcare meeting

The deadline for submitting abstracts for oral presentations is now closed, for flash talks and poster presentations are still open until 30th June 2019.

We have a full program of exciting talks from international leading scientists around the world

Confirmed plenary speaker for NHM:

- Prof. Mostafa El Sayed, a member of USA National Academy of Science, School of Chemistry and Biochemistry, Georgia Institute of Technology, USA. Talk title: Nanotechnology Enables Hot Gold Nanorods to Kill Cancer Cells and to Stop Alive Sick Cells from Migrating to other Places in the Body.

Confirmed invited speakers for NHM:

- Prof. Jesus de la Fuente, Institute of Materials Science of Aragón, Spain. He is a member of Global Young Academy (GYA), vice president of Spanish Young Academy. Talk title: New Biotechnological Challenges for Magnetic Hyperthermia

- Prof. Jit Kang Lim, School of Chemical Engineering, Universiti Sains Malaysia. He is a member of Young Scientist Network of Academy Sciences Malaysia. Talk title: Artificial Magnetotaxis of Microbot
• **Prof. Shinya Maenosono**, School of Materials Science, Japan Advanced Institute of Science and Technology. Talk title: *Imaging and Isolation of Autophagosomes using Magnetic-Plasmonic Hybrid Nanoparticles*

• **Prof. Dr. Nam Trung Nguyen**, Director of Queensland Micro- and Nanotechnology Centre, Nathan campus, Griffith University, Australia. Talk title: *Liquid marbles as a digital microfluidic lab-on-a-chip platform.*

• **Prof. Sylvie Begin**, Director at ECPM (European Engineering School in Chemistry, Polymers and Materials) University of Strasbourg. Talk title: *Engineering of magnetic-based nanoplatforms for theranostic*

• **Prof. Jochen Feldman**, Chair of Photonics and Optoelectronics Department of Physics and CeNS Ludwig-Maximilians-University Munich. Talk title: *Optical and Thermophoretic Forces on Plasmonic Particles*

• Dr Dominique Bégin, University of Strasbourg. Talk title: *Engineering of mesoporous silica coated carbon-based materials for drug release applications*

• **Assoc. Prof. Hiroshi Yabu**, Advanced Institute for Materials Research, Tohoku University, Japan. Talk title: *Nanostructured Polymer-Metal Composite Particles.*

• **Prof. Yanglong Hou**, Department of Materials Science and Engineering, College of Engineering, Peking University, China. Talk title: *Inherent multifunctional inorganic nanoparticles for imaging-guided cancer therapy.*

• **Dr. Maya Thanou**, Senior Lecturer, Institute of Pharmaceutical Science, King’s College London, UK. Talk title: *Nanoparticles as functional tools in image guided Focused Ultrasound drug delivery.*

- **Prof. Rachela Popovtzer**, Faculty of Engineering & The Institute of Nanotechnology and Advanced Materials, Bar-Ilan University. Talk title: *Nanoparticles for In-vivo Cell Tracking Imaging, Detection and Stratified Medicine*

- **Prof. Lingdong Sun**, State Key Laboratory of Rare Earth Materials Chemistry and Applications, Peking University. Talk title: *Multiplexed Luminescent Nanoparticles toward Integrated Therapy and Imaging Platform.*

- **Dr. Lingyun Zhao**, Associate Professor, School of Material Science and Engineering, Tsinghua University. Talk title: *Multifunctional Magnetic Nanocomposite Biomaterials for Cancer Multimodality Treatment and Image.*


- **Assoc. Prof. Lingyun Zhao**, School of Material Science and Engineering, Tsinghua University, China. Talk title: *Multifunctional Magnetic Nanocomposite Biomaterials for Cancer Multimodality Treatment and Image.*

- **Assoc. Prof. Mahesh Kumar** Electrical Engineering, Indian Institute of Technology Jodhpur, India. Talk title: *2D Engineered nanomaterials in healthcare*

Other presentations

- Long Binh Vong, Yukio Nagasaki. Antioxidant polymeric nanomedicines modulate the ROS-associated disorders
- An Phan. Direct Evidence of the Surfactant Sub-monolayer Adsorption Layer at the AirWater Interface of Ultrafine Gas Bubbles Provided by Laser Scattering Measurements
- Mahesh Kumar. Heavy metal ion water sensors based on AlGaN/GaN High Electron Mobility Transistor
- Nguyễn Tấn Khôi. Probing the Total Air/Aqueous Interface Area of ultrafine
Bubbles by Employing Gibbs Adsorption Isotherm

- Tonni Agustiono Kurniawan. Removal of acetaminophen from synthetic wastewater using multi-walled carbon nanotubes (MWCNT)
- Metej Sebek, et al. Role of halides in the seedless growth of gold anisotropic nanoparticles
- Nguyen Thi Kim Thanh, et al. Role of halides in the seedless growth of gold anisotropic nanoparticles

2 VYA community news

2.1. ONG Global Visit VNU-HCM

Assoc. Prof Nguyen Duc Hoang welcomed Dr. Ken K. Ho from ONG Global to visit the University of Science, VNU-HCM on 3rd April 2019.

- This is the 3rd visit of ONR Global to the University of Science. ORNG has supported the University of Science several research projects in the past.

- Participants of the meeting:
  * From ONRG: Ken K. Ho (PhD, PE, CEM), Science Director and in charge of Vietnam and Dr. Jeffrey Simmen, Science Director
  * From University of Science: Assoc. Prof. Tran Minh Triet, Vice President and Assoc. Prof. Tran Van Man, Head of Department of Science and Technology and other scientists.

- The contents of the meeting: ONRG introduce their activities and their support for scientific research, especially focusing on anything related to the Navy. Then we extensively discussed how can we get support from ORNG for research, conference and visit US scientist.
2.2. VYA community at GYA
Dr Tran Quang Huy, GYA member, former Chair of VYA and Professor Nguyen T. K. Thanh, a first ever cohort of founding member of GYA in 2008, Founder and Chair of Advisory Board for VYA; Associate Professor Martin Dominik, former Executive Committee member of GYA (2018/2017), member of Advisory Board for VYA; Dr Abel Polese, former member and friend of VYA attending GYA annual meeting in Halle, Germany in April-May 2019.

2.3. Science Advice for the Government
Prof Nguyen T. K. Thanh was attended the INGSA (International Network for Government Science Advice)-Halle Institute for Economic Research workshop on capacity building on science advice to the government lead by Prof Sir Peter Gluckman, former Chief Scientific Advisor of New Zealand and Chair of INGSA)
2.4. **Future of National and Global Academies**

At GYA GA there was a panel discussion with Jacqueline Olang Executive Director, Network of African Science Academies (NASAC) Volker ter Meulen President, InterAcademy Partnership (IAP); Former President, Leopoldina Philipp Kanske Board member, speaker elect, Junge Akademie, Germany Antonio Loprieno President, ALL European Academies (ALLEA), Orakanoke Phanraksa National Science and Technology Development Agency (NSTDA), Thailand Christiane Diehl Executive Director, European Academies’ Science Advisory Council (EASAC) about Future of National and Global Academies: Think big, be involved, get others to be involved, to be imbedded in the society and for society.
2.5. Ta Quang Buu Prize

Congratulations to Dr. Le Trong Lu – a friend of VYA has been awarded the prestigious Ta Quang Buu 2019 Prize from Vietnamese Ministry of Science and Technology.


Le Trong Lu started this research in Liverpool during his PhD in Prof Nguyen T K Thanh's lab at Department of Chemistry, University of Liverpool, UK, in 2008. But he has expanded the other half of the work on using 1-octadecene as the solvent instead of dioctyl ether, as it is 20 times cheaper in Vietnam. He also replaced hexadecanediol with octadecanol as it is also 20 cheaper. This is important because large amount of octadecanol is needed for the synthesis counted to 80% the cost of chemicals, therefore, the saving is significant. For examples, for synthesising 2g of materials, the cost reduced from $180 to $13. Furthermore, octadecanol was hardly used as a reductant and accelerating agent for nanomaterials synthesis before. These showed Lu's creativity to adapt to situation in Vietnam. He also expanded the work with cobalt ferrite nanoparticles as nanocatalysts for growing of aligned carbon nanotube (CNTs). It took us 7 years to publish this paper. The impact of the work is reflected in it being chosen for Cover page of Royal Society of Chemistry Nanoscale (impact factor 7.23), one of the flagship journals in Nanoscale Science and Nanotechnology.

3  Call for new members

We are inviting high quality applicants are invited for joining VYA. There are four application deadlines each year, which are on January 31st, April 30th, July 31st, and October 31st. The deadline for the next application round is on July 31st, 2019. The application form and guideline are available on our VYA website.

However, due to the WWMYA, it will be a great benefit for VYA members to join the meeting the application will be assessed on the ad-hoc basis before the meeting.

4  VYA community publications


5  Conference news
5.1 ASEAN Workshop on Photoemission Electron Spectroscopy and Microscopy (AWPESM2019)

ASEAN Workshop on Photoemission Electron Spectroscopy and Microscopy (AWPESM2019) which will be held on 17 – 19 June, 2019 at Synchrotron Light Research Institute (Public Organization) SLRI, Nakhon Ratchasima, Thailand.

The workshop aims to bring researcher, university lecturers and graduated students in Thailand and ASEAN countries together to promote the uses of Photoemission Electron Spectroscopy (PES) and Microscopy (PEEM) and related techniques at the SLRI, Thailand. The workshop will include special lectures, keynote talks and practical exercises for PES and PEEM experiments. Participants will gain basic knowledge on the PES and PEEM techniques and will be able to apply these techniques into their ongoing research works.

Moreover, the invited speakers will share their experience in PES and PEEM techniques at Australian Synchrotron, Australia, Physics Department of Hong Kong University of Science and Technology (HKUST), Hong Kong, Suranaree University of Technology, and the SLRI Thailand.

The workshop will offer a limited number of financial supports up to 10 participants from Thailand and ASEAN countries. This financial support includes registration fee, accommodation and travel expense.

Important dates

- Submission deadline: May 17, 2019
- Announcement of acceptance: May 24, 2019
- Workshop: June 17 – 19, 2019


6 News on Global Young Academy

6.1 The Carnegie funded InterAcademy Partnership (IAP) project: Improving Scientific Input to Global Policymaking with a focus on the UN Sustainable Development Goals, is ending this June. The project outcomes have been influential in shaping IAP’s strategic objectives for 2019-2022 and general forward thinking. The final report of the project will be launched at the United Nations’ STI Multistakeholder Forum on 14 – 15 May in New York City. The report will be available for free download
on the IAP website: http://www.interacademies.org/50429/SDGs_Report. If your academy would also like hard copies, please let us know by Friday, 17 May 2019 with mailing address, contact name, phone number, and number of copies (up to 4): secretariat@iapartnership.org

6.2 Global Young Academy now a full member of the InterAcademy Partnership
In recognition of its growing influence in the global science community, the Global Young Academy (GYA) has been named a full member of the InterAcademy Partnership (IAP), the global network of 138 academies of science, engineering and medicine.

The official announcement took place at the IAP Conference and General Assembly in Songdo, Korea, on Thursday 11 April 2019 during the joint InterAcademy Partnership meeting. GYA Co-Chair Tolu Oni, as well as Managing Director Beate Wagner were in attendance.

The IAP is a vital part of the global science landscape, and strives to ensure that science serves society inclusively and equitably. The GYA shares these goals, and will strive to ensure that its young scientist and researcher members actively contribute to them.

In its role as a full member, the GYA will have the IAP’s backing in various initiatives, particularly with the GYA’s ongoing support for existing and new national young academies. Together, the GYA and IAP will also contribute to building the next generation of science and policy leaders, particularly in low- and middle-income countries. The GYA had already been in collaboration with the IAP, but being named a full member will place this collaboration on a more formal and systematic level.

For more information on the IAP and its activities, please visit the IAP website: http://www.interacademies.org/

6.3 GYA Annual General Meeting and International Conference for Young Scientists
160 early-career scientists and scholars from 67 countries convene in Halle (Saale), Germany, from 29 April to 3 May 2019. Further information can be found at:https://globalyoungacademy.net/