



# VIETNAM YOUNG ACADEMY (VYA) BULLETIN

## Summary

<b>1. VYA Activities .....</b>	<b>1</b>
1.1 Membership renewal.....	1
1.2 New VYA members .....	1
1.3. New member application.....	1
1.4 Invitation to join a Wiki Vietnamese team .....	2
1.5. News on VYA Facebook page .....	2
<b>2. VYA Announcements .....</b>	<b>2</b>
2.1 VYA Annual General Meeting .....	2
2.2 Nomination for Chair of VYA and Operations Committee.....	2
2.3 Call for contribution from VYA members and friends to organize the Worldwide Meeting of Young Academies (WWMYA).....	2
<b>3. Funding opportunities .....</b>	<b>3</b>
<b>4. Career and promotion opportunities .....</b>	<b>4</b>

## 1. VYA Activities

### 1.1 Membership renewal

Thank you all who have submitted the renewal application. Congratulations to Dr. Tran Q. Huy, Dr. Le Minh Hoa and Dr. Lam N. Hanh who will continue their memberships for the next four years. We are looking forward to your continuing contribution to VYA's activities.

Members who did not apply for membership renewal will become alumni starting Jan 1<sup>st</sup> 2018. They will continue to contribute to the work of VYA, and help with specific tasks.

### 1.2 New VYA members

Welcome Dr. Bui Thanh Duyen (Post-doctoral fellow, University of California, San Francisco, USA) and Dr. Nguyen Duc Hoang (Associate Professor, University of Science, Vietnam National University – Ho Chi Minh City, Vietnam) to join VYA as members starting Jan 1<sup>st</sup> 2018. We are looking forward to working with you in carrying on VYA's mission.

### 1.3. New member application

VYA is seeking high quality application for joining VYA. We have four application cycle each year on January, April, July and October. The deadline for the next cycle of new membership application is January 31<sup>th</sup> 2018. Our application is available on our website at: [http://vietnamyoungacademy.org/application%20form/VYA\\_ApplicationForm\\_final.doc](http://vietnamyoungacademy.org/application%20form/VYA_ApplicationForm_final.doc).

*Members and friends are encouraged to send updates for publication in VYA monthly newsletter by the 20<sup>th</sup> of each month*

**Vietnam Young Academy, <http://vietnamyoungacademy.org>, Email: [info@vietnamyoungacademy.org](mailto:info@vietnamyoungacademy.org)**

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### 1.4 Invitation to join a Wiki Vietnamese team

Wiki Vietnamese is a part of Knowledge Identifier activity being developed by VYA. We are looking for VYA members to help with this activity. Please contact Dr. Tran Quang Huy ([huytq.nihe@gmail.com](mailto:huytq.nihe@gmail.com)) and Prof. Nguyen T.K. Thanh ([ntk.thanh@gmail.com](mailto:ntk.thanh@gmail.com)) if you are able to contribute in this initiative.

### 1.5. News on VYA Facebook page

We now putting funding news, research and career opportunities in the Facebook. Follow us at <https://www.facebook.com/VietnamYoungAcademy.org/> for future news.

## 2. VYA Announcements

### 2.1 VYA Annual General Meeting

In the New Year 2018, we plan to have an Annual General Meeting (AGM) on Skype. The time will be 3 pm PST. The exact date is to be decided to allow members from the West Coast of USA to Vietnam to attend.

### 2.2 Nomination for Chair of VYA and Operations Committee

The nomination form will be sent out shortly. Please send your nomination for Chair of VYA and Operations Committee members to us at [info@vietnamyoungacademy.org](mailto:info@vietnamyoungacademy.org) by Dec 23<sup>rd</sup>, 2017. Any member can nominate him/herself or another member for election to the Operations Committee or Chair of the VYA. Please confirm with the person who is nominated that he/she agrees with the proposed position before sending your nomination to VYA. The elections for the Operations Committee and Chair of the VYA will take place during the Annual General Meeting.

### 2.3 Call for contribution from VYA members and friends to organize the Worldwide Meeting of Young Academies (WWMYA)

After the successful 3<sup>rd</sup> Worldwide Meeting of Young Academies (WWMYA) hosted by the South African Young Academy of Science (SAYAS) in Johannesburg, South Africa, in July 2017, the Global Young Academy is looking ahead to supporting the next WWMYA in 2019. Deadline of applications by national young academies to host the 4<sup>th</sup> Worldwide Meeting of Young Academies in 2019 is December 10, 2017.

VYA has been presented to previous WWMYA by Prof. Nguyen TK Thanh (in Stockholm Sweden) in 2015 and Dr. Tran Q. Huy (South Africa) in 2017. We are going to bid for hosting the WWMYA in Vietnam in 2019.



## VIETNAM YOUNG ACADEMY (VYA) BULLETIN



Photo: Prof. Nguyen TK Thanh with deputy mayor of Stockholm, Sweden, November 2015

We seek contribution from VYA community (members, advisory boards, and friends). Please email Dr. Tran Quang Huy ([huytq.nihe@gmail.com](mailto:huytq.nihe@gmail.com)) and Prof. Nguyen T.K. Thanh ([ntk.thanh@gmail.com](mailto:ntk.thanh@gmail.com)) if you can contribute to in organising this very highly important international event.

### 3. Funding opportunities

- One-year post-doc position at laboratoire LIPhy in Grenoble, France on Steerable biosourced microswimmer powered by ultrasound. In the scope of targeted drug delivery, we aim at making a microswimmer both propelled and steered by ultrasound waves. The elementary brick of such a microswimmer is an elastic colloidal shell containing air, which deforms under the oscillating pressure of ultrasounds. With a view toward biocompatibility, these bricks are to be realised by absorption of xyloglucane / cellulose nanocrystals multilayers (model system for plant walls [1]) at the surface of micronic bubbles obtained through a microfluidic device [2]. Their randomly oriented swimming, due to deformations induced by pressure cycles, will be studied via statistical methods (projected walk, collective or singular diffusion properties...). In the light of a recent centimeter-scaled study [3], one will tackle the effect of coupling between eigenfrequencies of the shell deformations and pressure excitation frequencies, here ultrasonic, so as to learn how to enhance or repress shell motion. Then shells with different properties (size, thickness) will be aggregated using microfluidic facilities, by capillary confinement in an evaporating droplet [4], in order to build a swimmer which displacement direction depends on the (group of) shells effectively deformed by the ultrasonic wave. The goal of the project is to provide the proof of concept for powering a microswimmer using an ultrasonic wave, and remote steering through mere modulation of amplitude and frequency. Contact: [Catherine.Quilliet@univ-grenoble-alpes.fr](mailto:Catherine.Quilliet@univ-grenoble-alpes.fr)

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- Call for UCL PhD Scholarships (GRS, ORS, CSC) is now open. Links to fellowships:

[http://www.ucl.ac.uk/prospective-students/scholarships/graduate/UK-EU\\_Res/grs](http://www.ucl.ac.uk/prospective-students/scholarships/graduate/UK-EU_Res/grs)

<http://www.ucl.ac.uk/prospective-students/scholarships/graduate/overs-res/ors>

[https://www.ucl.ac.uk/prospective-students/scholarships/graduate/overs-res/csc\\_ucl\\_scholarships/](https://www.ucl.ac.uk/prospective-students/scholarships/graduate/overs-res/csc_ucl_scholarships/)

Strong candidates, who have (1) top grades (2) a couple of published papers in international journals (e.g., Physical Review B), (3) some honours or prizes, are advised to contact Prof Nguyen TK Thanh (email: [ntk.thanh@ucl.ac.uk](mailto:ntk.thanh@ucl.ac.uk)) by 20<sup>th</sup> of December 2017.

The candidates will be expected to have

- UCL PhD application form and ideally an offer of admission to UCL
- CV - candidate should include a list of all publications, past/current prizes, awards and scholarships on his/her CV.
- Academic transcripts
- Reference letters as included in the UCL PhD application - one reference should relate to the most recently completed university programme/degree (or intended to complete if applicable).

Due to large number of the applications, only short listed candidates will be contacted.

- Postdoc in Computational Biophysics at UCL, London. One Postdoc position in Computational Soft Matter and Biophysics available at UCL, London. More information is available here <http://www.jobs.ac.uk/job/BFV883/research-associate-in-computational-biophysics/>

#### 4. Career and promotion opportunities

- Many opening positions are available at National Physical Laboratory in the United Kingdom. More information can be found at <http://careers.npl.co.uk/vacancies/>
- Faculty opening on Thermal Sciences at EPFL, Lausanne. The Institute of Mechanical Engineering is soliciting applications for a faculty position at the level of tenure-track assistant professor in Thermal Sciences. More information can be found at the following link: <https://professeurs.epfl.ch/page-151902-en.html>. Applications should include a cover letter with a statement of motivation, a curriculum vitae, a list of publications and patents, a concise statement of research and teaching interests, as well as the names and addresses (including e-mail) of at least 3 references. Application files should be submitted in pdf format via the website: <https://facultyrecruiting.epfl.ch/position/7962625>. Formal evaluation of candidates will begin on January 15, 2018.

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Enquiries may be addressed to:

Prof. François Gallaire  
Chairman of the Search Committee  
E-mail: [igm-search@epfl.ch](mailto:igm-search@epfl.ch)

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