

NEWSLETTER

Volume 10 - Edition 4
November 2021

DAAD
Indonesia



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Foreword

Dear readers,

The Falling Walls Lab Indonesia has now become a tradition. Due to the ongoing COVID-19 pandemic, the sixth edition of this prominent and inspiring competition took place as an online event on September 2021. Twenty young scientists, comprised of students to doctoral candidates, presented creative and innovative project ideas from their respective fields of studies in front of a jury of experienced scientists. The winner was invited to participate in the final and global Falling Walls competition held traditionally in Berlin.

In this edition of our newsletter, you will learn all about this year's Falling Walls Labs three winners —from their experience and motivation in participating in the competition to their exciting scientific ideas. Who knows, maybe you and other readers will become inspired and encouraged to join us in one of our next Falling Walls Lab.

I would like to take this occasion to thank the members of the jury, as well as the German Embassy and Deutsche Welle for their participation and cooperation during the event – and congratulate all courageous candidates who undertook the challenging task of presenting their ideas in only three minutes!

Another important event that happened in September was the annual “Study in Europe” education fair in Singapore. The DAAD Information Point (IP) Singapore, our DAAD regional office in Jakarta, and the German Embassy Jakarta cooperated closely to ensure that this virtual fair is a complete success. A very special thanks to our Embassy for making this event the best that it can be! We hope that in 2022 we will be able to conduct the “SIE” as a face-to-face event once more!

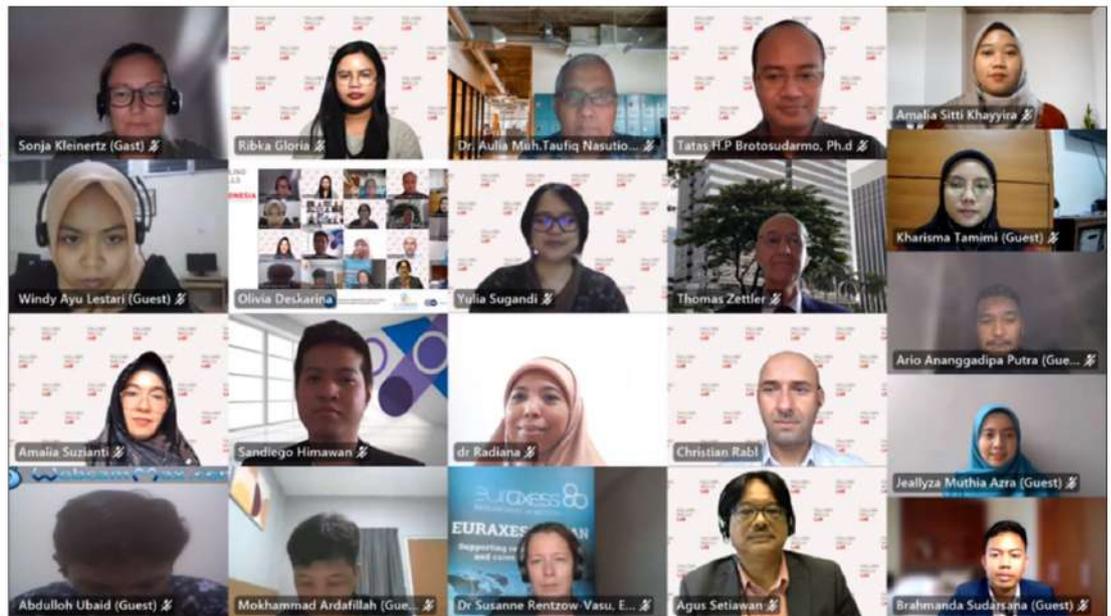
I hope you enjoy the interviews and other information in this edition of our newsletter. Any comments, remarks, and suggestions are, as always, welcome!

Best wishes and stay safe and healthy.

Thomas Zettler
Director of DAAD Regional Office Jakarta

FALLING WALLS LAB INDONESIA 2021
by Christian Rabi and Olivia Deskarina

FALLING WALLS LAB INDONESIA
The organizers are consortium partners of the Falling Walls Foundation.



This year marked the sixth edition of the Falling Walls Lab Indonesia. For the second year in a row, the Lab was conducted online due to the Covid-19 pandemic. This, however, didn't dampen the level of competitiveness shown by participants of the Lab. Out of almost twice as many applicants, a total of 20 finalists were chosen to present their innovative ideas at the Falling Walls Lab Indonesia on 11th September 2021.

Spanning a broad range of topics, from constitutional law, renewable energy, to vaccine production, the finalists offered innovative solutions to a multitude of highly relevant problems. It was not easy for the jury, composed of Dr. Tatas H.P. Brotosudarmo (Ma Chung Research Center for Photosynthetic Pigments, Malang), Dr. Radiana D. Antarianto (Department of Histology, Universitas Indonesia), Dr.-Ing. Amalia Suzianti (Head of Product Development and Innovation Laboratory, Universitas Indonesia), Dr. Aulia Muhammad Taufiq Nasution (Department of Engineering Physics, Institut Teknologi Sepuluh Nopember, Surabaya), Dr. Yulia Sugandi (Head of Solutions Mapping at UNDP Accelerator Lab Indonesia), Mr. Ario Ananggadipa Putra (Head of Product Research (Driver & Marketplace), Survey Science Lead at GOJEK), Mr. Agus Setiawan (Senior Editor at Deutsche Welle), and Dr. Sonja Kleinertz (Institut Pertanian Bogor), to select a winner as all finalists gave their very best.

FALLING WALLS LAB INDONESIA 2021

by Christian Rabl and Olivia Deskarina

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The organizers are a consortium of members of the Falling Walls Foundation.



Deutscher Akademischer Austauschdienst
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The highest cumulative score was given to Ms. Amalia Sitti Khayyira, an R&D scientist and founding member of CV Amalose Indonesia, a start-up company that focuses on functional foods. She convinced the jury with a presentation called "Breaking the Wall of Medicine-Like-Foods for Diabetes", in which she proposed a promising solution for diabetes treatment. As Indonesia's Falling Walls Lab 2021 winner, Ms. Amalia will represent her home country at the Falling Walls Lab Finale to be held in Berlin in November 2021. In addition, Ms. Amalia won the EURAXESS prize awarded by our Lab partner, EURAXESS ASEAN, which consists of individual science communication training as well as prize money to visit European research institutions. Ms. Amalia was also chosen to participate in the Innovation Week 2021, organised by TU9, an alliance of nine Technical Universities in Germany, and the DAAD.

Second place went to Mr. Putu Brahmada Sudarsana, a final year mechanical engineering undergraduate student from Udayana University, Bali. His presentation was titled "Breaking the Wall of Ancient Manuscript Preservation".

The third-best presentation, "Breaking the Wall of Highly Perishable Coconut Water", came from Ms. Jeallyza Muthia Azra, a postgraduate student of Community Nutrition at Bogor Agricultural University (IPB), Indonesia.

The Falling Walls Lab Indonesia 2021 was conducted through a robust media partnership with Deutsche Welle (DW). Thanks to the cooperation with DW, we hope that even more young innovators and creative minds will feel inspired to share their ideas at the Falling Walls Lab Indonesia 2022.

Now, let's hear from our Falling Walls Lab Indonesia 2021 top three! We hope that the interviews they gave us will inspire you and we can welcome you among the finalists of next year's Lab!

Interview with Amalia Sitti Khayyira



Thank you for your time and congratulations on winning Falling Walls Lab Indonesia 2021! First of all, could you tell us a bit about your background?

Thank you, it's a great honor for me to be the Falling Walls Lab Indonesia 2021 winner! I am a pharmacist who graduated with my professional degree in 2018. Since my undergraduate years, I have been very keen to learn about biotechnological applications in pharmacy, so I decided to continue my studies with a Master's degree in pharmaceutical microbiology and biotechnology. After graduating, I took a rather unconventional path by joining a newly founded biotech company, CV Amalose Indonesia, and working as a core team member. In this start-up company, we try to solve health-related problems by creating functional food products that can act like medicine, which is the main idea of my Falling Walls pitch! Although we started small, we are optimistic that our innovation can create a big impact on society.

The theme of your presentation is “Breaking the Wall of Medicine-Like-Foods for Diabetes”. Could you share with us the inspiration behind your idea?

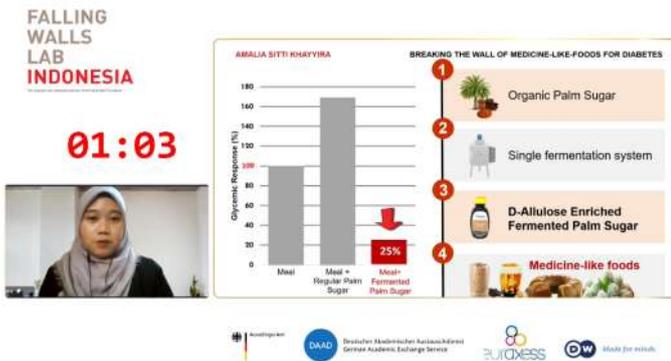
Diabetes mellitus is a serious problem in Indonesia. Without many realizing it, we are currently the 7th highest population with diabetes mellitus in the world! A metabolic disease, diabetes mellitus—Type 2, specifically—is deeply rooted in an unhealthy lifestyle. We observed that the habit of eating sweets is widely practiced in Indonesia. We are so used to consuming excessive sugary beverages on a daily basis. Hence, when someone is diagnosed

with diabetes, it becomes really difficult for them to change this habit. With our company's expertise in biotechnology and health sciences, we are able to provide new kinds of foods that can improve diabetic patients' conditions, while still preserving the sweet taste. We believe that our products can fulfill the needs and demands of diabetic patients, so they can still enjoy sweets without worry.

What was your motivation in joining Falling Walls Lab Indonesia 2021?

Challenges are an inevitable part of one's self-development, and I always thrive to challenge myself in order to grow. Falling Walls Lab is one of the most prestigious events, where innovators and experts from all fields gather and discuss which walls to break next. I believe that this community incubates future world leaders, and I dream of becoming one of them. Falling Walls Lab Indonesia 2021 was my opportunity to disseminate our research and obtain feedback from a larger audience. Thankfully, the juries seem to share the same perspective of our solution to the diabetes mellitus problem and believe that it has great potential.

Interview with Amalia Sitti Khayyira



Since this year's Lab was conducted online, what were your biggest challenges as finalists?

It is really unfortunate that we still cannot meet offline and interact directly. With the online Lab, there are additional aspects to be concerned about. Peer training and workshops have very limited impact due to being conducted online. And besides the pitch itself, we also worry a lot about the technical issues. Just two days before the presentation, during the briefing, I had an issue with my audio system, so that made me quite anxious.

Was it hard for you to present your idea in only 3 minutes?

Selecting important information to be presented in just 3 minutes was very hard. When presenting your idea, you tend to think that all details are important so you can impress the audience, right? For this reason, I had to revise my slides and script several times and consult my colleagues concerning which pieces of information are necessary. I also needed to obtain inputs from people with different backgrounds so I could ensure that my words of choice are understandable and not too technical.

When you were mentioned as the winner of Falling Walls Lab Indonesia 2021, were you shocked?

Definitely! All the finalists' presentations and ideas were fascinating. I had read through all the finalists' slides and background fields even before the D-day (this is a habit I had picked up in every competition), and it was hard to rank mine between all of them because they were all so good. The winning title gave me hope and confidence that this idea is acceptable to the public, and can be expanded in the future.

As the winner of Falling Walls Lab Jakarta, you also received "Science Communication Training" from Euraxess. Could you share your experience in joining the Science Communication Training?

That's right, I had one session of science communication training conducted online by Minerva, a science communication consultant based in the UK. I received new feedback regarding my online presentation in FWL Indonesia, and I realized there is a lot of room for improvement especially when presenting offline. Since I am not a native English speaker, I also obtained input on grammar and dictions. Unfortunately because of the limited time, we did not have a chance to discuss more about science communication in general.

As the winner of Falling Walls Lab Jakarta, you will fly to Berlin and present your idea. Do you have any hopes or expectations about introducing the idea on the international stage?

I am both excited and nervous about presenting on the international stage. I am wondering about the international audience's response to our idea and whether they see it as promising or not. I wish to meet my fellow peers and partners—people who can work together towards a shared goal of global health. But most importantly, I hope to be in my best condition and present my idea as clearly as possible.

You will also get a chance to visit a research institute in Europe. Is there any specific research institute that you would like to visit?

I am interested in Ph.D. research opportunities and collaborations to tackle the diabetes issue. Germany has a remarkable institution focusing on diabetes research, the German Center for Diabetes Research (DZD), which has partnered with various research institutes and universities like Helmholtz Zentrum München, German Institute of Human Nutrition in Potsdam, and Leipzig University, so I would like to visit them. I have also discovered Prof. Markus Stoffel's research group in ETH Zurich, which is very exciting, although I am still not sure about traveling to multiple countries during the pandemic. At the very least, I hope to meet him virtually.

Last but not least, do you have any words for those who would like to join Falling Walls Lab Indonesia next year?

For those who plan to join Falling Walls Lab Indonesia, perhaps you have already heard that it is a once-in-a-lifetime chance. It might sound terrifying (it was, even for me!), but just build up your confidence and go on! Opportunities do not come twice, they say, and it is true. So, prepare your best innovations and ideas, train and train again until you are satisfied, then you're good to go. I am rooting for all of you, and I look forward to seeing you at next year's Falling Walls Lab Indonesia.

Interview with Brahmada Sudarsana

FALLING WALLS LAB INDONESIA

02:08

PUTU BRAHMADA SUDARSANA **BREAKING THE WALL OF ANCIENT MANUSCRIPT PRESERVATION**

8,239 ancient manuscripts were found broken in Bali

Rewrite the manuscripts

Store in the wooden box

Manuscript digitalization



Deutscher Akademischer Austauschdienst
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Made for minds.

Thank you for your time and willingness to be interviewed. First of all, could you tell us a bit about your background?

Thank you for the opportunity. I'm Brahmada Sudarsana, a final year mechanical engineering undergraduate student from Udayana University, Bali. My passion is to innovate and research applicable apparatus for the greater society and culture.

The theme of your presentation is “Breaking the Wall of Ancient Manuscript Preservation”. Could you share with us the inspiration behind your idea?

The idea was born from a concern regarding many ancient manuscripts (known as *Lontar* in Indonesia) in museums that I found were in less-than-ideal conditions. After conducting more studies, I learned that these ancient manuscripts—which are mostly made out of Asian palmyra palm leaves—tend to have low durability and are highly vulnerable to biological degradation and other environmental hazards. Furthermore, there's also the matter of how manuscript digitization might endanger the culture of writing on a palm-leaf manuscript. To tackle these issues, my team and I developed the Internet of Things (IoT)-integrated Vacuum-Assisted Resin Transfer Molding (VARTM) (IoT-VARTM) method, which is able to automatically layer both sides of manuscripts with resin while simultaneously counting the number of manuscripts being preserved and monitoring the data. Using this method, we are solving the challenges of ancient manuscript vulnerability as well as the manuscript writing culture. Now, we can break down the wall of ancient manuscript preservation.

What was your motivation in joining Falling Walls Lab Indonesia 2021?

I've been following the social media of DAAD Indonesia since 2018, that's when I got to know the Falling Walls Lab as well. I watched several Falling Walls Lab presentation videos and I thought it was very interesting yet challenging how we can present our idea and the complexity of the problem we are trying to solve in just 3 minutes. That motivated me to focus more on research and innovation and to also one day join the Falling Walls Lab Indonesia.

Since this year's Lab was conducted online, what were your biggest challenges as finalists?

My biggest challenge that I have to resolve is mostly on the technical side, such as audio and camera quality. Both truly affect the quality of a presentation which in most cases is indicated by how easily the conveyed message can reach the audience. Not being able to meet the other finalists physically also reduces the quality of engagement. However, the online gathering platform, Wonder, has proven to be more than helpful in getting us to communicate with each other.

Interview with Brahmanda Sudarsana



Was it hard for you to present your idea in only 3 minutes?

It is truly hard to convey my idea in just 3 minutes. I believe that presenting anything within such a strict time frame will always be difficult. But that's where the challenge lies. My personal experience with my FWL presentation is the way I have to explain a problem that is related to the culture and society, analyze it from a technical (engineering) perspective, and explain the solution scientifically. It was truly an eye-opening experience for me.

What was the most memorable moment for you during Falling Walls Lab Indonesia 2021?

This is very hard to choose! Every moment during FWL Indonesia 2021 is memorable for me. But if I had to, it was when I was declared the 2nd place winner of FWL Indonesia and how I was able to discuss more about my presentation with Mr. Christian Rabl and Ms. Yulia Sugandi on Wonder.

Last but not least, do you have any words for those who would like to join Falling Walls Lab Indonesia next year?

For those who would like to join Falling Walls Lab Indonesia, I have to say from my personal experience, the first wall that you have to break is the wall of self-insecurity. Every research or innovation is valuable. To make it more impactful, we need to be able to convey our ideas to society. Through Falling Walls Lab Indonesia, I believe we can take a step forward in delivering our ideas to the wider community. So let's join Falling Walls Lab Indonesia 2022!

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Interview with Jeallyza Muthia Azra



Thank you for your time and willingness to be interviewed. First of all, could you tell us a bit about your background?

Hello! I'm Jeallyza Muthia Azra, a Postgraduate Candidate of Community Nutrition, IPB University, Indonesia. Currently, I'm researching the effects of powdered young coconut drinks in improving the condition of diabetes mellitus patients.

The theme of your presentation is about "Breaking the Wall of Highly Perishable Coconut Water". Could you share with us the inspiration behind your idea?

Coconut water is an extremely popular plant-based nutritious drink. In addition to its delicious flavour, it also offers many health benefits for people. It is, however, easily perishable due to containing high amounts of nutrients. Therefore, coconut water needs to be processed using various methods to prolong its shelf life.

What was your motivation in joining Falling Walls Lab Indonesia 2021?

I believe that sharing and networking are two things that could always help people move forward together. Sharing ideas derived from any expertise could give us a new vision of the future. In addition, networking creates collaborative opportunities that could help break down the walls surrounding many issues. And Falling Walls Lab Indonesia is the perfect platform to make this a reality.

Since this year's Lab was conducted online, what were your biggest challenges as finalists?

The biggest obstacle I faced when conducting a virtual meeting is an unstable internet connection. So, I recorded a video pretending to talk to the panelists in case something unpredictable happens.

Was it hard for you to present your idea in only 3 minutes?

It's quite hard but I consider it a challenge to share my idea and research in a manner that is short, precise, and interesting for the audience.

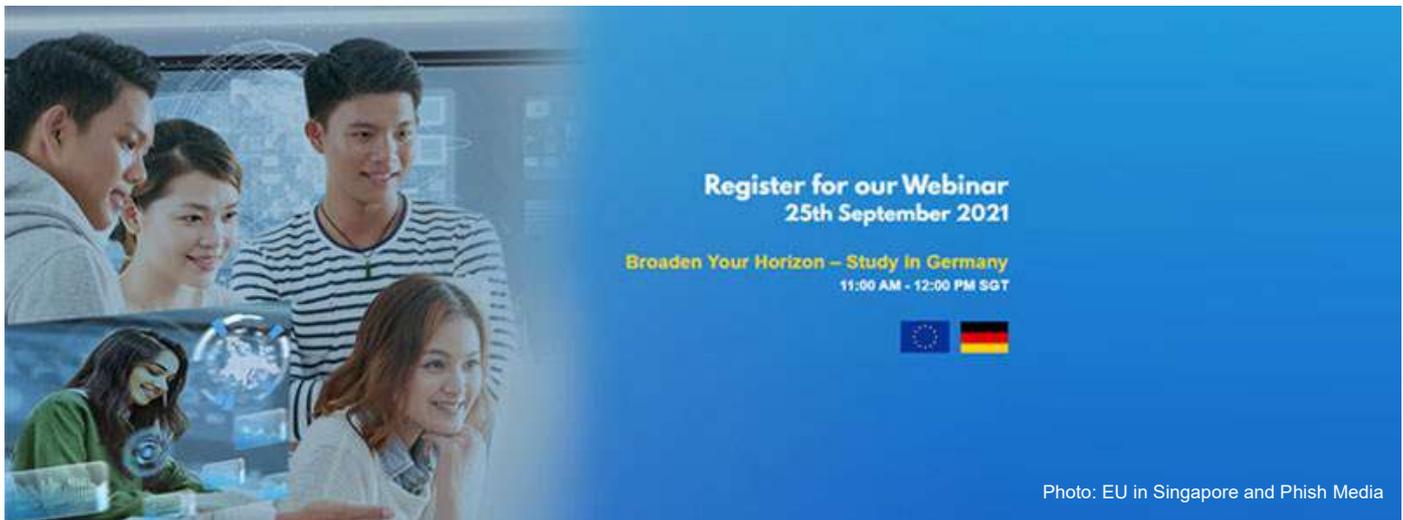
What was the most memorable moment for you during Falling Walls Lab Indonesia 2021?

The most memorable moment for me was the sharing session, where all the participants gathered together with the judges and alumni to exchange ideas and provide opportunities for collaboration. I didn't expect the topic that I presented to have attracted the attention of the judges and other participants.

Last but not least, do you have any words for those who would like to join Falling Walls Lab Indonesia next year?

Don't let your dreams end up on your notebook or laptop. This is the time to speak up and make your innovative ideas known. You never know, maybe the idea that you think of can benefit others!

Singapore: Study in Europe - Digital Edition by Priyanka Nagarkar



The second digital edition of Study in Europe — Singapore's higher education fair for studies in European countries—drew a record-breaking 15,000 visitors. It was held on 25th September 2021.

With the participation of more than 20 European countries and over 150 universities, the digital edition of the fair presented many diverse study programmes and opportunities on offer throughout Europe through a single online platform.

DAAD IP Singapore alongside DAAD AS Jakarta and the German Embassy Singapore represented Germany in the event and also arranged a live webinar for all the participants. The Studying in Germany webinar had the maximum attendance with more than 200 registrants. 15 prominent universities from Germany also participated in the fair, showcasing their international Bachelor, Master, and Ph.D. programmes.

The fair connected undergraduate and postgraduate students in Singapore with universities from Germany and other participating countries, providing them with access to information about academic institutions, the application process, student life, details of various bond-free scholarships, and highlighted many universities where courses are conducted in English.

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DIES Training Course Management of Internationalisation 2022/2023



DIES TRAINING COURSE ON "MANAGEMENT OF INTERNATIONALISATION" 2022–2023

Leibniz University Hannover, the German Academic Exchange Service (DAAD), and the German Rectors' Conference (HRK) are jointly organising the **DIES Training Course "Management of Internationalisation"** in cooperation with Universidad Católica San Pablo – UCSP (Arequipa, Peru), Manipal Academy of Higher Education – MAHE (Manipal, India), and Jomo Kenyatta University of Agriculture and Technology – JKUAT (Nairobi, Kenya).

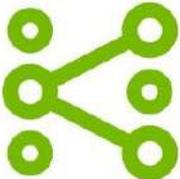
The key objective of the training course is to qualify university staff (either International Office staff or higher education managers responsible for coordinating international activities) from selected countries of Africa, Latin America, and Asia, to manage processes and tasks of internationalisation in the area of higher education.

Deadline: 1 December 2021

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