

NEWSLTR

**NOVEMBER
2019
ISSUE**

HIGHLIGHTS OF THE MONTH

Feel The Polish
Climate!

IAAS Belgium

The Success of
#MA3AN

IAAS Morocco

The 2019
IAAS Summit

IAAS Indonesia



MICROPLASTICS AND SUSTAINABLE AGRICULTURE



Let's Make IAAS Great Again!

Dear all IAASer around the world!

Merry Christmas and Happy New Year for all of you who read this letter! In this Holiday Season I wouldn't talking about the December activities since all of you still doing it in your entity. And thank you again for everyone of you who already giving the best for making IAAS great again in November! By this newsletter, I'm hoping everybody can able to contribute more especially to realizing our dream towards #IAAS2020.

Best regards,

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Vice President of Communication IAAS World 2019/20

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IAAS World



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Many thanks to:

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What's Up!

Europe



IAAS BELGIUM



Hallo! Bonjour! Guten tag!

After the spooky month of October the cold and dreary month of November came around. This is the perfect time to stay indoors, get the popcorn and see a movie, which is exactly what IAAS Ghent and IAAS Leuven did by organising movie nights. There were lots of local meetings, on one IAAS Leuven cleaned the boshut whilst drinking cocktails. We held our motivational weekend with all three local committees, had loads of fun and talked important things such as ExCo meeting 2020!

Oehoescoop

November 5th, 2019 (Ghent, Belgium)

This was our annual movie screening in our campus' biggest and most wonderful auditorium. We let the students decide what movie to watch, they chose Forrest Gump and it was a great movie! We served hot chocolate for free to people who brought their own mug and sold chips, soda and delicious popcorn. Even though it was a busy evening we still had a nice turn-out which was lovely to see.



Movie Night With IAAS Leuven

November 25th, 2019 (Leuven, Belgium)

IAAS Leuven created a private cinema where we could bring blankets and cuddle up to watch "Fight Club"! In between the consumption of popcorn, crisps, beers and soda we pained our minds to understand the crazy story, which eventually, became clear at the end of the movie.

Cleaning With Cocktails

November 14th, 2019 (Leuven, Belgium)

Thursday night we held a teambuilding that brought our two biggest (ahum) passions together: (ahum) cleaning our beloved Boshut and (ahum) drinking cocktails. It became a true adventure when we decided to put tables and chairs on top of each other to be able to reach the attic...

Well yeah... eventually the Boshut became clean and the bottles empty: so mission succeeded!

International Cantus

November 13th, 2019 (Ghent, Belgium)

IAAS Ghent helped organise the International Cantus together with the other associations who are a part of the International Convent.

Now, you might think "What is a Cantus??" A very short summary would be a traditional Belgian acapella karaoke, but with some rules to make the night a bit more enjoyable, even after a couple of beers.



Motivational Weekend

October 22th - 23th, 2019 (Leuven, Belgium)

In November we had the first of our bi-annual general assemblies. Students from each of the Belgian committees (Ghent, Leuven and Louvain-La-Neuve) came together in IAAS Leuven's boshut for a meeting to discuss things on a national level. This includes a general review of the semester, attended international events, merch and past and upcoming local events.

For our Ghent committee the motivational weekend started with a bunch of us gathering at the train station to head to Heverlee! Once we arrived in Leuven we met up with the members of Louvain-La-Neuve and walked a short route to the boshut. Leuven prepared the evening feast, aka raclette, and we all squished around the table using whatever we could find as extra chairs. After dinner we played two intense and somewhat chaotic games of Weerwolven van Wakkerdam which was a great way for old and new members to get to know each other. This was helpful to then divide everyone over the Leuven dorms and head there for the night.

The next morning, we were greeted with koffiekoeken and hot coffee and tea which gave a wonderful boost to start the meeting. The morning was spent discussing the past couple months and included a video message recorded by our lovely Nexco who is currently on a semester abroad in Spain.

After a welcome lunch of croques, the afternoon was devoted to Exco meeting 2020! Next semester IAAS Belgium will be hosting a nine-day long gathering for the IAAS exchange coordinators from all over the world to come together and discuss what they have been up to and their vision for the future. It's a big responsibility and requires a lot of planning but we are very excited and cannot wait to see everyone!

This concluded the lovely weekend and after cleaning up and saying goodbye to everyone (we'll miss them!) we headed back home. See you soon boshut, let's convince FBW to build one for IAAS Ghent too.



Feel The Polish Climate!

Going To The Polish Exchange Week

November 4th - 10th, 2019 (Warsaw, Poland)

One of our favourite things that we do in IAAS is organising exchange weeks. We invite members of other countries to come visit Belgium for a week and then they invite us back in return! Last semester Ola and Karol visited our tiny country, so this past month two of our members got to visit Poland. One of them was Ann Vandeput Cugnon, the local director of Louvain-La-Neuve, and this is her story:

Going to Poland was a first for me. Going on an IAAS Exchange Week was also a first for me. So yeah, the combination of these two made it a special trip. I can say with a head full of laughter & memories that it was an amazing week! We were 9 participants (2 Greek girls, 2 German guys, 2 Swiss girls, 1 Croatian guy and 2 Belgians, me and Sudipt) accommodated and nourished by an incredible Polish team! We slept in dorms on the campus of SGGW - The Warsaw University of Life Sciences (with real beds!), ate lunch at the university restaurant (how do they even pay for all that??) and had amazing interesting as well as fun activities!



The first day can be resumed as waiting for everyone to arrive, but once the group was completed we visited the Polish Vodka Museum in the evening. A guide explained the whole process of how Vodka is brewed and why there are so many different flavours. We ended the visit - of course - with a tasting

The next day we got up early to travel across the city to get to the Institute of Meteorology where we had a lecture about ground based remote sensing. It was interesting to learn about how weather forecast works as it influences our daily life. The employee also explained us how thunderstorms are created and how to react during such an event. So interesting!! Afterwards we got back to the uni to do a campus tour in a more interactive way: a 1-hour-challenge! We received a list with questions and tasks to ask Polish students from the campus.

On Wednesday morning, we went to the outskirts of the city to visit the university's farm. This farm is just huge! The university owns 800 ha of land, with 700 cows for dairy and meat and so much more. We only visited the dairy farm with its 350 cows. We got a whole explanation of how cows are fed, milked and how they manage to produce such a quality milk. And to top it off, we witnessed the birth of a calf.

In the afternoon we had a lecture from a professor about Soil and Climate conditions in Poland. After dinner we went to a karaoke bar to sing some Bruno Mars, Queen and Polish songs.

Thursday morning we went to visit a foodbank in Warsaw. A foodbank is a storage place where leftovers from shops are brought in before being redistributed to social organisations in order to help the poor. In the afternoon we had time to buy food and prepare everything for the Trade Fair. This TF was really epic: the Polish brought so much vodka that everyone was quickly flying high, the Swiss brought raclette, everyone loved the Belgian fries and chocolate and we ended up stealing the Polish flag.

Friday we were finally able to sleep a bit before the activities started. We first had a lecture about Corporate Social Responsibility in Poland. CSR is a self-regulating business model that helps a company be socially accountable—to itself, its stakeholders, and the public. By practicing CSR, also called corporate citizenship, companies can be conscious of the kind of impact they are having on all aspects of society, including economic, social, and environmental.

Then a graduated student gave us an introduction about sustainable interior design. During the afternoon we had an IAAS talk in order to discuss ways to recruit new members and how to keep them interested enough to actively be part of the team.

On the last day (Saturday) we took a stroll through the old city of Warsaw. In the afternoon we had our final lecture about Planetary Health Diet and we immediately put our new knowledge into action while preparing a plant-based dinner. The evening was a sad one because we already had to say goodbye to the Swiss girls and we knew we would all part the next day... I already said my goodbyes during the evening because I would immediately go back to the hostel instead of going out as I had to get up early to get my flight. So on Sunday I woke up at 6 am and left the quiet hostel alone. Just before arriving to the airport I was controlled and as it turned out I didn't have the correct ticket (which I didn't know) so I tearfully paid a fine.

IAAS ITALY

Buongiorno IAAS!

This month our committee carried out practical activities and held a seminar. The Naples local committee focused on the production of craft beer and the experimental vegetable garden, while the Sassari committee on a scientific seminar.

Homebrewers Lab

November 15th, 2019 (Ercolano, Italy)

During this month, the local committee carried out two activities such as Beer Production, specifically a Weizen, and the Day of Sowing that took place on the internal garden of the Department of Agriculture. Members of the committee met in the Faculty to reach the brewing laboratory, located in Torre del Greco in the Don Orione Center which allowed us to use the premises. The people responsible for the crush of beer are Davide Di Leo and Simona Cozzolino. The beer brewing followed all the processes foreseen on an industrial level, including the MASH, helped a teacher the final must have a density of 1054 Plato degrees, as prescribed by the recipe. During the last processes, however, the must that had to ferment and then become beer after two weeks (since it was decided to use a high fermentation yeast at a temperature between 16-22 degrees), had problems because the yeast used was not properly activated days before in culture prepared according to the recipe.



Through the directives of Prof. Blaiotta, an associate such as Simona Cozzolino, she took a sample of must from the fermenter and experimented fermentation at 4 degrees noting that the aroma and the unpleasant smell disappeared as the beer stopped at the inside of the fridge. Then with the help of the more experienced associates and Prof. Blaiotta, the associates were able to recover the beer, pouring it into 20 L and 15 L PET and then placed in the cellar for further rest. At the end of fermentation, the beer had a density of 1010 degrees Plato, a sign that the fermentation had officially ended despite all the difficulties. Moreover, it is thought to put it in cask to improve its aroma and deliberately contaminate it with *Brettanomyces* which are the antagonist yeasts of the wine that in the beer, releasing acetic acid, give very special flavors and aromatic notes. Everything took place according to HACCP rules, all the members were provided with shirts and gloves

News From Experimental Garden

November 18th, 2019 (Portici, Italy)



We are still working on the "winter" experimental garden. The goal of the winter garden is to prepare the soil for the culture of 2020 and to introduce the members of the local committee in farming practices. The person responsible for the garden is Mike Tiburcio, a member of the local board, and with the new associates, we have decided to plant 2 cultivars of broad beans (a local var. and "Aguadulcis Supersimonia") and Cicerchia (*Lathyrus sativus*). All cultures are thought of as nitrogen fixers and they also require few days of work. Unfortunately, in our place,

Unfortunately, in our place, we got some problems with birds, in particular, peacock (we have few in the area of our faculty) and pigeons. On the first day, we sowed 200 seeds of locally cultivated variety, 200 of Aquadulcis beans and 100 of Cicerchia. Sadly in the germination process, the only local variety has germinated. Before the transplantation, the soil was good and weeded manually. Then we started monitoring daily how was the garden. This operation was done to verify the benefits of mulching on a low-income culture and can be a deterrent to birds. During these days members of the local committee applied the techniques of transplanting in the field and tilling. For now, the transplanted seedlings are giving a good response despite the frequent attacks of peacocks, they show vigor and taken root.

Conference On Beef Cattle

November 22nd, 2019 (Sassari, Italy)

During the conference professors and experts took part to bring to light the most important issues in the sector, there was the talk of reproduction, meat production, and sustainability of the same.

The conference was attended by 130 people including students, professionals, breeders, and academics and was held together with the Department of Agriculture, Department of Veterinary Medicine, Professional Association of Agronomists, Professional Association of Veterinary Physicians and other Regional Public Research Organizations.



IAAS Switzerland

Hello FamillAAS!

In November five of our members went to the European Directors Meeting in Germany to work on the regional Projects and to participate in the General Assembly. We also had our National Motivational Weekend and we were invited by a former IAAS Switzerland National Director from the 1990s for a barbecue. We had our biweekly lunch meetings and we organized another one of our typical Thursday Beers.

National Motivational Weekend

November 8st - 9st, 2019 (Zürich, Switzerland)

Following the Sub regional Meeting North we organized our National Motivational Weekend to plan the next Semester. We had a Training by our own Trainers and a Workshop to implement the regional projects into our committee. Furthermore we formed the Organizational Committee for our Exchange Week for the spring Semester. We enjoyed a delicious Raclette Dinner and did a city challenge through Zurich for teambuilding and to get to know the first Semester students



Visiting The Former National Director Of Switzerland

November 8st - 9st, 2019 (Zürich, Switzerland)



Like every year we visited one of our former National Directors on the Uetliberg close to Zurich. We brought our own food and drinks, while he offered us a lovely fireplace and stories from the old IAAS times. After the barbecue and Glühwein we then hiked down back to Zurich in the moonlight.

The Second Thursday Beer Night Of The Autumn Semester

November 8st - 9st, 2019 (Zürich, Switzerland)

At our university the ETH Zürich the student association of the agriculture and food science department (VIAL) organizes a Thursday Beer every week of the semester. IAAS Switzerland is part of VIAL and we take our turns of organizing these Thursdays. We regularly break the record of best visited Thursday Beer of the Semester with most sold beers. Our second Beer Night included a Beer Pong tournament. Once again we had a very successful night.



IAAS CROATIA

Dear IAAS-ers,

Our New Board worked hard to learn everything in a timely manner and get ready for realization their ideas. Throughout the month, we organized several meetings of the old and new National Board to share knowledge. We have a lot of work to do in the month of November, so this month we have worked on organizing all the activities in November. We signed up for EDM 2020. and we are proud to have been chosen as hosts

Exchange Week In Poland

November 3th- 10th, 2019 (Poland)



IAAS Croatia participated on exchange week, in Poland, called "Feel the Polish Climate". IAAS Croatia was represented by Jure Atlja. Besides IAAS Croatia the participants were also: IAAS Greece, IAAS Switzerland, IAAS Belgium and IAAS Germany

On the exchange week, they visited the Meteorological Institute in Warsaw, the food bank, the cow farm at the college and their greenhouses, the Festival of Light in the Royal Gardens, the Polish Vodka Museum, and various other museums, churches and other tourist attractions.

Jure is back with a lot of new knowledge that he has already shared with us. The following lectures were held during the exchange week: lecture on storm formation and remote sensing of radar forecasts, lecture on soils and climatic conditions in Poland, lecture on steps in cow breeding and milk production, lecture on greenhouse plant research and the influence of individual wavelengths light on plant growth, lecture on responsible business from RBF Poland and lecture on sustainable interior design. The most memorable moment was during a visit to a cow farm where they witnessed the beautiful moment of birth of a small calf.

With many lectures, there was also time for relaxation and fun. They had a workshop of making traditional Polish pierogi and we hope that Jure will prepare them for us soon. They played many games through which they got to know each other better. Judging by the stories, there was a lot of laughs and good fun!

The University Of Zagreb Summit

November 21th- 23th, 2019 (Zagreb, Croatia)

The University of Zagreb Summit is organized for high school students, students and others interested in timely notification of study programs in particular professions in Zagreb. We, as representatives of our faculty, shared our experiences gained while studying with future students. We were very pleased with the graduates who came with great interest in our profession and with many interesting questions. We hope that we have provided our future students with all the necessary details.

We are certainly richer for experience and a few new acquaintances!



NOVEMBER 2019

IAAS SERBIA

November was full of events for our committees. We hope that these activities will further contribute to the work of our committees and we have many new projects in the pipeline. We also visited the ethno village Moravski Konaci. IAAS serbia visited two well-known wineries Radovanovic and King Peter I. The Novi Sad Committee had ICIA preparations and an open day at the faculty.



Motivation Weekend

November 22th - 24th, 2019 (Valencia, Spain)

IAAS SPAIN

Firstly, as usual, when we arrived on Friday we organized some typical IAAS **integration games**. After that, we did **trade fair**, where every 5-6 people had a country assigned. Every team had like 20 minutes to cook everything. Also, we dressed up with typical and original costumes from the different places (India, Poland, USA, France, Mexico, Italy and Spain). Next day after breakfast we explained what IAAS is to the new members and after we got divided into 6 groups and had to simulate the **organization of an event** (it was a good training for new members because we our plan is organize and Exchange week next semester) After lunch we played a very fun **Gymkhana**, where both Madrid and Valencia had organized different games, and the winner team had a little gift (a bottle of the typical Spanish drink Orujo). Finally that night we did a **Cantus**, where some of the old members run it and took a quite good serious role on it. Last day we cleaned up everything and say goodbye to each other. It was a really fun weekend and productive! We really think we **motivated** our new members, which was our first goal.



What's Up!

Africa



IAAS MOROCCO

Salam IAASer,

We are glad and satisfied about the exposure we gained and the work and opportunities we got involved in starting last month: the humanitarian caravan "ma3an" or "together, the filming of the world soil day video, and most of all the project we are highly proud of, it is the the reality international seminar scheduled from the 15th March to the 22nd of March 2020, under the topic "Agriculture face to climate change. We hope you all having a great day!



Village Concept Project

November 16th – 18th, 2019 (Oulmes, Morocco)



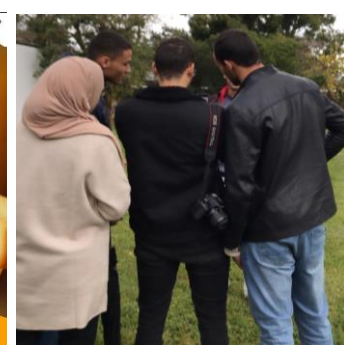
The humanitarian caravan "MA3AN" or "TOGETHER" was a successful experience, our members had fun helping and giving back, the event included renovating 3 schools (painting, decorating and adding heating systems), distributing 108 packs of school supplies and 120 food baskets to the families.

The first edition is took place in the rural area of Oulmes region in the Moroccan Atlas and it's in collaboration with another NGO called "Lueur d'espoir". We warmly thank "Les Eaux Minérales D'Oulmes" and "Association Al Wiam pour le développement social" for their financial support of this humanitarian caravan.

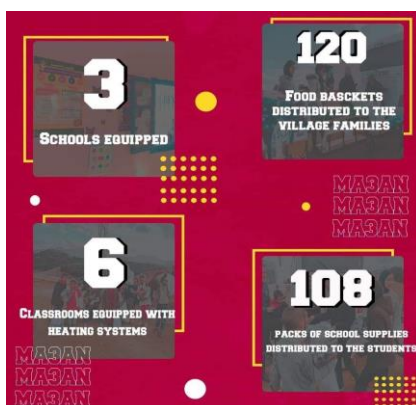
World Soil Day Video

November 20th – 25th, 2019 (Rabat, Morocco)

In celebration of The international soil day, the communication board decided to make a video for the 5th of December and post it on our Instagram Account, including interested members in order to raise awareness about the importance of soil, "what people refer to dirt " as a very astonishing source of life.



#MA3AN Memories



#MA3AN Outcomes



#MA3AN Activity (Repainting the Classes)

IAAS NIGERIA

Hello Familiaas,

The month of November was an eventful one for one of our local chapter (University of Ibadan). The school activities resumed officially for the second semester the month and so members were fully around and activities kick off. We also officially inducted new members into the association which went successfully.



Introduction From IAAS National Committee

IAAS Nigeria have six (6) local chapters, we have worked so much to one aim of producing Agro wise graduate with a team of Agro expert, intelligent and dedicated members. IAAS Nigeria leaders are set of people that have dedicated themselves not only to this great developing association but also to developing themselves. In the team we have human resource personnel, project management professionals, agriculture enthusiast, Agro Communication expert And founders of Agro startup, this great team has brought together people from different race and have gotten over 80% perception of people changed about agriculture.

General Assembly

November 25th, 2019 (Nigeria)



The weekly Monday General Assembly resumed with her first meeting on the 18th of November. Here, we gave a summary of activities for the tenure; projects and plans included. Information regarding IAAS in general was also given; an example being the upcoming ADM to hold in Ghana. Another GA held in November was on the 25th of November and it went smoothly also.



Snailry Maintenance

November, 2019 (Nigeria)



Maintenance of our snailry continues with regular Saturday joint cleanup exercises which include changing their soil, cleaning the snailry and cleaning the snails themselves. We change their mulching material, feed them and generally take care of them. This happens 7 am most Saturdays.

NOVEMBER 2019

Induction Of New Members

November 22th - 23th, 2019 (Nigeria)

IAAS-UI held a 2-day induction ceremony for the intending members of the association who had been interviewed, approved to be members of the association. It started on Friday, 22nd of November with a visit to the Teaching and Research Farm in the University where we were given an extended tour and taught and shown many aspects on the farm. Saturday, 23rd of November was the second day. In the morning, the formal event held; members gave presentations, and took the oath and were officially accepted into the association. We also had a guest speaker; Mr. Quincy Benson from Agropark who spoke on the theme and majored in educating us on Spices production. The induction ended in the evening with a hangout where everyone ate, drank, played games and got to know each other. It was a successful event with positive responses from those present.



What's Up!

Americas



IAAS USA

Greetings FamillAAS from USA!

Hello FamillAAS,

November was a great time for our IAAS members to work on gaining a more international perspective. Members from our local committees traveled to various conferences and meet fellow IAAS members from other countries. Some of our other local communities also participated in various cultural education events.



Aseiagro Conference

November 18th - 22th, 2019 (Santa Marta, Columbia)

Caryn Dawson, a member of IAAS Iowa, to Colombia for a week to attend the Aseiagro Conference. IAAS students from the Americas were invited to encourage the formation of a new IAAS committee in Colombia.



Europeans Directors Meeting

November 28th - December 5th, 2019 (Bonn, Germany)

Adam Bittner traveled to Bonn, Germany to attend this year's European Directors Meeting. Adam and European students went on a variety of farm and industry tours. IAAS members at the European Director's Meeting also participated in a Development Fund and Trade Fair.



World Food Prize



Malaysian Cooking Class



IAAS GUATEMALA

Mesoamerican Ethnobiology Symposium

November 2th - 6th, 2019 (Guatemala City, Guatemala)



From November 2 to 6 in Guatemala City we were present at the first Mesoamerican ethnobiology symposium, where we participated in different academic and cultural activities

Latin American And Caribbean Congress

November 4th - 8th, 2019 (Chapingo, Mexico)



From November 4 to 8, IAAS Guatemala sent a delegation to participate in the Latin American and Caribbean Congress -CLEIA- for its acronym in Spanish, held at the Autonomous University of Chapingo in the Mexico State



What's Up!

*Asia
Pacific*



Dee

IAAS INDONESIA

Halo! Apa kabar IAASer,

In this November, IAAS Indonesia had held Youthagriculture which aimed to increase awareness of agriculture to youth and society. Other than that, some of our LCs did some cool event too this month to spread goodness between member and environment. So check this out!

IAAS Summit

November 30th, 2019 (Indonesia)



What a fun day! November 30th became an extraordinary day when many young people gathered together at the Bulungan Performance Building, South Jakarta. Critical and creative are two things that are forged on the same day to create awareness of young people for the sustainability of agriculture in this disruptive era. 4.0 era became a challenge, as technology swept across the agricultural sector with the sophistication and practicality it provided. About 150 people agreed to work together to build a better farm together with great speakers.

Starting from Mr. Graha Abadi Pasyaman S.P, Indonesian Farmers' Co-Founder, realizes how classy it is to be a modern farmer today. Many facts about agriculture today are a slap for the younger generation to immediately start steps to advance Indonesian agriculture. Then, Mr. Bayu Khrisnamurti, Lecturer in the Faculty of Agribusiness, University of IPB, provided a variety of extraordinary information about agriculture and how to create a managing farm through its video material. Then, Dr. Eva Anggraini, Director of Scientific Publications and Strategic Information at the University of IPB, gave extraordinary knowledge about the 4.0 industrial revolution which is currently grappling with the world of VUCA. Hope with the presence of this speaker is able to create and grow the soul of the younger generation to immediately take steps to advance Indonesian agriculture.



The next session was a presentation of the Village Project Concept (VCP), a village empowerment and development program conducted by IAAS Indonesia in 11 Local Committees. This is a concrete manifestation of the movement of young people for Indonesian agriculture presented by IAAS. Then, the participants who were present were getting more excited to discuss together through a joint talkshow with Mr. Yohanes Agung Baskoro, Corporate Responsibility & Leadership of the State of Sustainable Development. Cargill Indonesia and Mr. Mohammad Fachreza Hakim, Jawa Agriculture Program Manager who discussed sustainable agribusiness in the digital economy era. This event also features a beautiful appearance from Ms. Tsamara Areta Labiba and closed with awards for partners from IAAS Indonesia and local committees as a form of thanks.



IAAS Conversation Club & MUN

November 30th, 2019 (Sumedang, Indonesia)

IAAS Conversation Club is a forum for IAAS members to improve their discussion skills in English with certain discussion themes. This year's series of ICC activities raised the main theme of SDGs No. 14, Life Below Water, which began with the ICC Round Table Discussion that held in Gd. Multimedia Faperta Unpad on October 18th 2019, then the Workshop of Model United Nation on October 22nd 2019 and the last was the Model United Nation Simulation with the specific theme "Reducing Water Pollutions that Affecting Fisheries" that held on November 9th 2019 in Student Center Faperta Unpad



NOVEMBER 2019

Village Concept Project 2019 IAAS LC UNPAD

October 5th – November 10th, 2019 (Meknes, Morocco)

IAAS LC Unpad held Village Concept Project 2019 at Desa Cinanjung from October until November. In 5 October 2019, we held a bazaar at village head office, Cinanjung Village, Sumedang. The bazaar opened for public, This event began with the greeting from the MC and IAAS LC UNPAD representative. Our goal in organizing this event is to introduce IAAS, especially VCP Team to the people in cinanjung village. The bazaar ended then closed with photo session. In November 10th 2019, we held free medical checkup at village head office, Cinanjung Village, Sumedang. This medical checked up opened for public, the first session of this event began at 8.30 - 9.30, and second session started at 9.30 until 11.00, the last session is only for members of KWT Malati Asih. Our goal in organizing this event is to introduce IAAS, especially VCP Team to the people in cinanjung village, and also encourage the people to be more aware and care about their health. This event ended at 11.00, then closed with photo session with KSR PMI UNPAD as our event partner in this week.



IAAS Orientation Program

November 9th - 19th, 2019 (Malang, Indonesia)

IOP XXVII is an event held by IAAS LC UB to welcome newly accepted member of IOP 27. This event aims to increase new members knowledge about IAAS and also to their acceptance into IAAS LC UB. This event was held on November 9th – 19th 2019 at Villa Kalendra Batu. In the first day of IOP XXVII, we held some talkshow about IAAS LC UB, IAAS Indonesia and IAAS World for the newly accepted member to increase their knowledge about IAAS in general. Also there were group performances by IOP 27 for the entertainment. On the second day we had morning exercise and games to ease things up a little bit.

IAAS LC UB Anniversary

November 16th, 2019 (Osun State, Nigeria)



IAAS Anniversary is an annual event held to celebrate the anniversary of IAAS LC UB. The event was in a form of gathering of all active IAAS LC UB member to Alumni of IAAS LC UB. This event was held on November 16th 2019 at Papa Bear Café and Restaurant. The event consisted of many fun activities including; gathering, talkshow by our alumni, games, department performance, and many more! On this event we invited several alumni from older IOP to share about their experience in IAAS LC UB and its impact to their life. We had Mr. Johan Pambudi S.P from IOP 1, Local Committee Director of IAAS LC UB 1999-2000, and even one of the IAAS Vice President from 2004 as speaker of our event.

A photograph of a light-colored plate on a blue background. On the plate are several pieces of microplastic waste: a clear plastic bottle cap, a blue plastic bottle cap, a white plastic bottle cap, and a clear plastic bottle. The text 'MICROPLASTIC AND SUSTAINABLE AGRICULTURE' is overlaid in large, white, bold, sans-serif capital letters.

MICROPLASTIC AND SUSTAINABLE AGRICULTURE

Picture Source: hellosehat.com

Environmental issues have been shone by a more intense light in these last years. From climate change to sustainable practices of human activities, they all connected to the environmental issues that we currently facing. Not many people know it, but there are more about the relation between **Microplastics** and **Sustainable Agriculture** that we might need to know further.



Picture Source: medium.com

What Is Microplastics?

Microplastics is a term for small plastic pieces sized less than five millimeters long. It comes from variety of sources, including larger plastic which degrades into smaller pieces by external forces or from easily-passed microbeads, a type of microplastics which can be found added in health and beauty products as exfoliants. Microbeads, microfibers shed from clothing and other textiles or other type of microplastics designed for commercial usage are considered as primary microplastics, while the one sourced from breakdown process of larger debris are considered as secondary microplastics. Microplastics can be found in many places, spreading through many means, such as waterway and through air.

Why Should We Focus On Microplastics?



Just as any other type of plastic, microplastics particle are not easily and readily broken down into harmless molecules. They can take up to hundreds or thousands of years to decompose. Since 1950, humans have produced approximately 8.3 billion metric tons of plastic, which only 9% are recycled and 12% incinerated. The other 79% ended up in landfills and environment, which then disintegrates into microparticles that pollute water, air and soil, eventually harms wildlife and consumed by humans. Based on research by GESAMP and UNEP stated in UN FAO report, over 220 different species in water bodies have been found to consume microplastics debris *in natura*, which 58% were commercially targeted species. Concerns are rising regarding microplastics spread because of scientific uncertainty about the hazards of microplastics issues. It could have adverse health effect towards humans, which are on the top level of the food web and can easily be exposed to other sourced microplastics. Microplastics both absorb and give off harmful pollutants and chemicals that may build up over time and stay in the environment, and eventually in human bodies. In short, because of how widespread the problem is, how close it is to our life and the scientific uncertainty behind microplastics effect towards human health, it is currently becoming one of the most concerned environmental issues in the world.

What Is Sustainable Agriculture

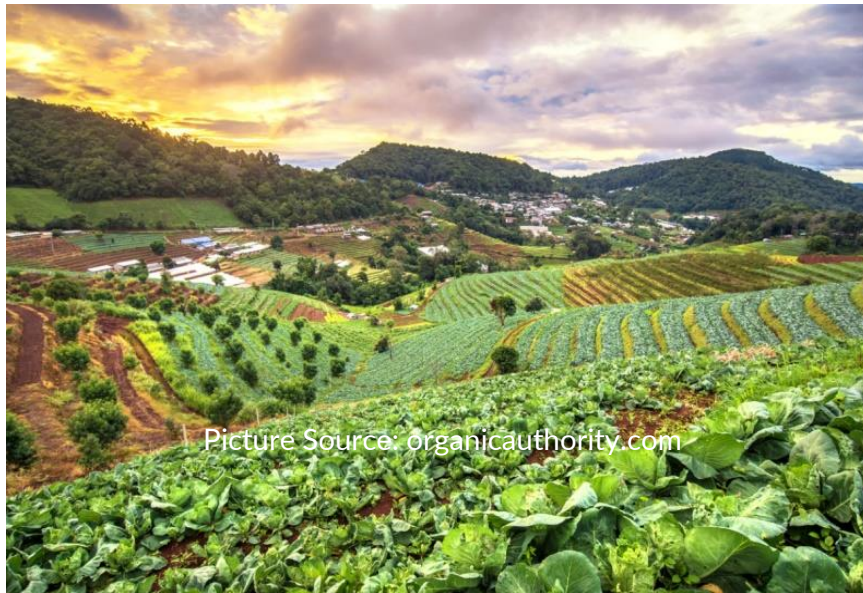
Sustainable agriculture defined as an integrated system of plant and animal production practices having a site-specific application which over the long term can satisfy human needs while enhancing environmental & stakeholders' life quality as a whole, and make the most efficient use of nonrenewable and on-farm resources. The goal of sustainable agriculture is to meet society's needs, especially in agricultural-related matter such as food and textile in the present without compromising the ability of future generations to meet their own needs. Sustainable agriculture practitioners are trying to integrate three main objectives, which are a healthy environment, economic profitability, and social & economic equity. There are many topics that could be discussed and integrated regarding sustainable agriculture, one of them is soil management. As soil health and fertility are among two of the focus in sustainable agriculture practices, usage of chemicals and contamination from various pollutants into soil became main factors to be monitored.



Picture Source: ncat.org



Picture Source: ncat.org



Picture Source: organicauthority.com



Picture Source: justmeans.com

How Microplastics Connected To Sustainable Agriculture?

Microplastics as one of the most widespread pollutant in the environment also become a threat to soil health and fertility, eventually impacting plant growth, development and other agricultural practices done with soils. While to date the focus are currently on microplastics in the ocean and their effects on marine life, its impact in soils have largely been overlooked. Based on Corradini *et al.* research, microplastics in soil have been found in soil samples, ranging from 0.6-1.4 p/g soils. The samples are soils with municipal waste sludge treatment, which usually used as supplementary soil additives other than usual fertilizers. From this research, they conclude that one of the soil microplastics pollution's primal driver is sludge application. A wide variety of soil microplastics pollution's impacts are predicted, ranging from its possibility to absorb heavier soil pollutant, or its possible negative interaction with soil organisms. Because of its chemical structure and traits, microplastics might absorb other pollutants such as persistent organic pollutants or heavy metal and might cause combined effect towards soil and organism in and on it. There are some evidences that microplastics have possibility to inhibit the growth and reproduction of soil biota, but there are also research regarding the negligible effect of low dose microplastics pollution in soil. The uncertainty of microplastics effect is caused by the lack of better understanding of its interaction with soil biota. But, because of the previous combined ability of microplastics and other pollutant, it might do more harm than what are known now



Picture Source: hellosehat.com



Picture Source: DW.com

What We Can Do To Fight Microplastics?

As we all know, plastic and microplastics are not naturally occurring product in the environment, which means every piece that we see in the wild are directly caused by humans. To actually turn the tides on them, integrated actions between many stakeholders should be done. On our part as consumer, there are some ways that we can do about this big super tiny problem.

1. Don't use single-use plastics
2. Be a conscientious consumer when you shop, ranging from the materials of the product to how we bought the product (in bulk, using personal container, etc.)
3. Recycle, donate, repair
4. Put pressure on offenders and praise those who are reducing plastic use
5. Take a pledge to reduce your plastic use
6. Participate in cleanup efforts
7. Become and adventure scientists to help with research
8. Organize a plastic pollution event
9. Support organizations that are fighting plastic pollution
10. Get politically active
11. Lead the change and be example for others!



REFERENCES

1. NOAA. 2019. What are microplastics? National Ocean Service website, <https://oceanservice.noaa.gov/facts/microplastics.html>, 11/15/19.
2. National Geographic Society. 2019. Microplastics, National Geographic website, <https://www.nationalgeographic.org/encyclopedia/microplastics/>, 07/01/19.
3. Anonym. 2019. How do microplastics affect? Iberdrola website, <https://www.iberdrola.com/environment/microplastics-threat-to-health>, Accessed on 12/17/19
4. Lusher, A., P. Hollman, and J. Mendoza-Hill. 2017. Microplastics in fisheries and aquaculture: Status of knowledge on their occurrence and implications for aquatic organisms and food safety. FAO, Rome.
5. Anonym. 2017. Microplastics. Tox Town National Institutes of Health website, <https://toxtown.nlm.nih.gov/sources-of-exposure/microplastics>, 05/31/17.
6. Choo, R. 2018. What you can do to fight plastic pollution. Earth Institute of Columbia University website, <https://blogs.ei.columbia.edu/2018/05/11/can-fight-plastic-pollution/>, 05/11/18.
7. Gold, M. V. 2007. Sustainable agriculture: Definitions and terms. National Agricultural Library website, <https://www.nal.usda.gov/afsic/sustainable-agriculture-definitions-and-terms#toc2>, Accessed on 12/17/19.
8. Anonym. 2019. What is sustainable agriculture? Agricultural Sustainability Institute UC David website, <https://asi.ucdavis.edu/programs/ucsarep/about/what-is-sustainable-agriculture>, Accessed on 12/17/19.
9. Corradini, F., P. Meza, R. Eguiluz, F. Casado, E. Huerta-Lwanga, and V. Geissen. 2019. Evidence of microplastic accumulation in agricultural soils from sewage sludge disposal. Science of The Total Environment 671: 411-420.
10. Wang, J., X. Liu, Y. Li, T. Powell, X. Wang, G. Wang, and P. Zhang. Microplastics as contaminants in the soil environment: A mini-review. Science of The Total Environment 691: 848-857.



Upcoming IAAS Events!

You shouldn't miss



NOVEMBER 2019

EXCHANGE COORDINATOR MEETING 2020 HOSTED BY IAAS BELGIUM



After we received a cancellation statement letter from IAAS Chile due to the several circumstances, with the help from every IAAS member we can finally have our host for the ExCo Meeting 2020 which is IAAS Belgium as from the vote from every IAAS country. Exchange Coordinator Meeting is an yearly event held by IAAS World as for the Summit for every ExCo from every IAAS country for having a General Assembly and Meeting for the Exchange Program in IAAS.

Application is not yet opened. But for everyone of you especially Exchange Coordinators, keep stay tuned with us and prepare yourself for the events in the next end of March 2020! See you in Belgium!

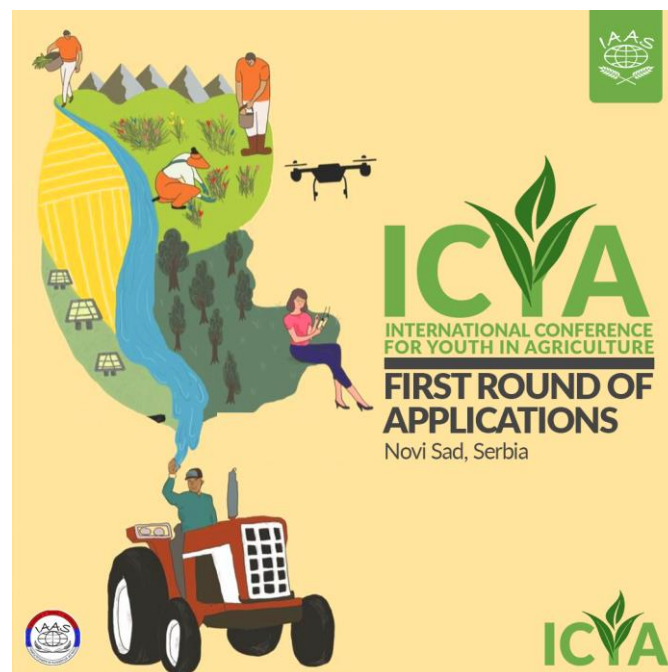
**APPLICATION WILL OPEN
JANUARY 2020!**

INTERNATIONAL CONFERENCE FOR YOUTH IN AGRICULTURE HOSTED BY IAAS SERBIA



International Conference for Youth in Agriculture (ICYA) is a 4 day, science-oriented event, covering a specific topic (or a set of specific topics). Its main structure is divided into two parts is focus on:

1. Bringing up new innovative projects, ideas, youth movements.
2. Creating statements and expressing the voice of students on particular topics.
3. Fostering and facilitating the debate and dialogue between students from all over the world.
4. Giving the opportunity to every student to apply and participate in the Conference regardless whether he/she is a member of IAAS or not.
5. Collaborating with new partners/sponsors, Universities and NGOs. Participants are internationally active young leaders



APPLICATION IS OPEN NOW!
[Bit.ly/ApplyICYA2020](https://bit.ly/ApplyICYA2020)

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