



# **FIG Young Surveyors Network**

## ***6th Young Surveyors Conference***

**Challenges in our  
New Reality**

**Reimagining  
a sustainable future**



# ***About the 6YSC***

The FIG Young Surveyors Network is holding its 6th Young Surveyors Conference (6YSC) on the 15th and 16th May, 2021 online, hosted by the Netherlands, in connection with the 2021 FIG Working Week. The conference also marks the 15th year of FIG YSN and the 20th year of the FIG Foundation, and hence presents a unique opportunity to celebrate the strong bond between the two bodies.

The theme for this year's conference is: Challenges in Our New Reality: Reimagining a Sustainable Future. Within the past year, a lot of things have changed in our world, ushering us into a new reality. However, these changes have not changed our goal of a more sustainable future. Surveyors play a large role in the drive towards our common future. More so, young surveyors representing the link with the future play a larger role in the adaptation to the new reality and face the Global Challenges of our day. This requires the involvement, and cooperation of young surveyors from the wide spectrum of the surveying profession. The 6th Young Surveyors Conference (6YSC) is a two-day online conference, held across four time zones, that will provide young surveyors from different cultures and countries, as well as different academic, and professional backgrounds to meet, learn from each other, dialogue on the integral role of young surveyors towards rising up to the Challenges of our New Reality. Join us on this virtual trip around the world in 24 hours!!!





# WELCOME MESSAGE

## Welcome message for the 6th Young Surveyors Conference

As President of the International Federation of Surveyors (FIG) it is an honour and pleasure to write a few words of welcome at the occasion of this 6th Young Surveyors Conference, organized for the first time in an online format.

14 months ago, when we lived the global outbreak of the COVID-19 we all thought that this bizarre situation will be over within a few months. But today we have to accept that it will need much more time to master the pandemic. There are optimistic signs like vaccines which are available in different products and on all continents, but it still needs patience and discipline from all of us. Virtual communication was technically already possible before COVID-19, but during the last year we all became quite familiar with the different forms of “Online” for teaching, learning, meeting, debating, chatting, and conferencing.

In the light of the current situation the chosen format of a virtual conference is not a surprise. But it is not just a virtual conference, it is much more because the organizers designed a real global conference which is travelling virtually around our globe in 24 hours. The start is the first session for Africa and Europe, followed by two sessions for South- and North America. The final session is dedicated to the Asia- and Pacific Region.

I would like to congratulate our Young surveyors for this brilliant idea having a real global event, which allows each and everybody all over the world to assist and to participate to this event in the local time zone.

I thank all who are active and have contributed and helped to make this event successful.

On behalf of the International Federation of Surveyors (FIG) I wish you all a vibrant 6th Young Surveyors Conference with inspirational speeches, and interesting new contacts and ideas.

All the best,

Rudolf Staiger

President

International Federation of Surveyors (FIG)

# WELCOME MESSAGE



Dear Colleagues and Friends of Young Surveyors,

It is with much pleasure that we welcome you to the 6th Young Surveyors Conference (6YSC). Though it would have been great to meet in person, the current global situation has compelled us to have an online conference. However, with every setback, there is a silver lining. Our inability to meet in person, has given us the opportunity to have a global online conference, setting the stage for young surveyors from around the world to meet each other, albeit virtually.

Having been established during the XXIII FIG Congress in Munich in 2006, this year marks the network's 15th year in existence. Young surveyors have always been at the forefront of facing up the changing times of our profession. And this current cohort of young surveyors is faced with an even more drastic change to our way of life. This has no doubt altered the way we work, and indeed the way we study. This conference will provide us with another opportunity to meet, discuss, and reorient ourselves in facing the Challenges of our New Reality: Reimagining a Sustainable Future.

This conference would not have been possible without our sponsors and our supporters. Our heartfelt gratitude goes to them. And to the organising team spanning all continents, we are very grateful to you!

We hope young surveyors around the world have a fruitful and exciting conference!

Kwabena Obeng Asiama  
Ferah Pirlanta Köksal  
FIG Young Surveyors Network

# WELCOME MESSAGE



Dear Young Surveyors,

It is a great pleasure to welcome you to the 6th Young Surveyors Conference. I hope that you are excited, ready and eager to take part. The last year has been unexpected and challenging. All of us have felt the impact of the pandemic and the measurements related to it, as a person and as a student or professional. However we have also seen what can be achieved and be made possible when the pressure is on.

Your careers will take shape in the post COVID-19 time. The 6th Young Surveyors Conference is your opportunity to reflect with the speakers on the changes and to share your visions of how the new reality will look like.

I encourage you to aim high, ask questions and contribute to the discussions. Also I invite you to bring your vision and inspiration to the FIG e-Working Week from 20-25 June.

As a participant of the 6th Young Surveyors Conference, you also get free access to this annual flagship event of FIG.

Best regards,

Paula Dijkstra

Co-Conference Director FIG e-Working Week 2021

# WELCOME MESSAGE



Welcome to the 6th FIG Young Surveyors Conference! For the second year in a row, due to the COVID-19 pandemic, the Young Surveyors are meeting virtually.

I am happy and honored to represent the FIG Foundation and participate in this year's conference.

In 2021 the FIG Foundation celebrates 20 years of Building a Sustainable Future. The Foundation awards grants and scholarships to promote education, training, capacity building and continuing professional development.

Since its founding in 2001 the Foundation has fostered the role of Young Surveyors within the profession and FIG by seed-funding conferences, meetings and exchanges including STDM training and the Volunteer Community Surveyor Program (VCSP). The Foundation has proudly supported the FIG Young Surveyors Network since its creation in 2006.

As of today, the FIG Foundation has awarded 208 grants to deserving Young Surveyors from 75 countries, for a total funding of over € 303.000.00. Continuing its support of Young Surveyor activities, the FIG Foundation has awarded 75 grants to students and young professionals to participate in this year's Conference.

I wish you all a successful conference! Hopefully, we will be able to meet together again in person next year at the XXVII FIG Congress in Cape Town, South Africa.

John Hohol,  
President,  
FIG Foundation

# PROGRAMME AT A GLANCE

## PROGRAMME

### AFRICA AND EUROPEAN PROGRAMME

**Saturday 15th May, 2021 (10.00 - 13.00 UTC)**

**Lagos ( 11.00 - 14.00 UTC+1 );**

**Amsterdam (12.00 - 14.00 UTC+2);**

**Nairobi (13.00 - 15.00 UTC+3)**

- 10.00 - 10.20 Grand Opening
- 10.20 - 11.00 Keynote Session
- 11.00 - 12.00 Parallel Sessions  
(Presentation Track  
and Panel Discussion Track)
- 12.00 - 12.30 Interactive Sesion with Speakers and  
Panelists
- 12.30 - 12.45 Closing Session

### SOUTH AMERICAN PROGRAMME

**Saturday 15th May, 2021 (15.00 - 17.00 UTC)**

**Buenos Aires (12.00 - 14.00 UTC-3)**

**Caracas (11.00 - 13.00 UTC-4)**

**Lima (10.00 - 14.00 UTC-5)**

- 15.00 - 15.05 Bienvenida
- 15.05 - 15.20 15° Aniversario de la red de jóvenes FIG
- 15.20 - 15.40 Geomarketing
- 15.40 - 16.00 Ética en el uso de los datos espaciales
- 16.00 - 16.20 Geomática en Proyectos de Salvamento  
Arqueologico
- 16.20 - 16.40 Modelo de Gestión de una IDE
- 16.40 - 16.55 Tecnología de radar satelital para la detección y  
monitorización de la deformación de la  
superficie terrestre
- 16.55 - 17.00 Despedida

# PROGRAMME AT A GLANCE

PROGRAMME

## NORTH AMERICAN PROGRAMME

**Saturday 15th May, 2021 (19.00 – 22.00 UTC)**

**New York (15.00 - 18.00 UTC-4)**

**Chicago (14.00 - 17.00 UTC-5)**

**Vancouver (12.00 - 15.00 UTC-7)**

- 19.00 - 19.20 Opening Session
- 19.20 - 20.00 Keynote Session
- 20.00 - 21.15 Parallel Sessions  
(Presentation Track  
and Panel Discussion Track)
- 21.15 - 21.45 Interactive Session with Speakers and  
Panelists
- 21.45 - 22.00 Closing Session

## ASIA AND THE PACIFIC PROGRAMME

**Saturday 15th May, 2021 (15.00 – 17.00 UTC)**

**Beijing (10.00 - 12.30 UTC+8)**

**Tokyo (11.00 - 13.30 UTC+9)**

**Sydney (12.00 - 14.30 UTC+10)**

- 02.00 - 02.10 Opening Session
- 02.10 - 02.55 Keynote Session
- 02.55 - 03.30 Parallel Sessions  
(Personal Development Track  
and Technical Track)
- 03.30 - 04.20 Interactive Session with Speakers and Panelists
- 04.20 - 04.30 Closing Session

# Grand Opening



**Rudolf Staiger**  
President  
International Federation  
of Surveyors (FIG)



**Vladmir Krupa**  
President  
Council of European  
Geodetic Surveyors (CLGE)



**Kwabena Obeng Asiama**  
Chair,  
FIG Young Surveyors  
Network (FIG YSN)



**Ferah Pirlanta Köksal**  
Vice-Chair,  
FIG Young Surveyors  
Network (FIG YSN)



# AFRICA AND EUROPEAN SESSION

## SATURDAY 15TH MAY, 2021

### (10.00 - 13.00 UTC)

LAGOS ( 11.00 - 14.00 UTC+1 );  
AMSTERDAM (12.00 - 14.00 UTC+2);  
NAIROBI (13.00 - 15.00 UTC+3)

PROGRAMME

## 10.00-10.20 (UTC) - Grand Opening

The grand opening of the conference will provide opportunities for young surveyors across the world to hear from the speakers from FIG, and the FIG Young Surveyors Network. This will set the stage for the two-day conference across the globe.

- Rudolf Staiger, FIG President
- Vladmir Krupa, CLGE President
- Kwabena Asiana and Ferah Köksal, FIG Young Surveyors Network

## 10.20-11.00 (UTC) Keynote: Facing Global Challenges in Times of a Pandemic

The keynotes in this session will focus on the larger picture of the conference. The global pandemic has reoriented the way we are meeting the global challenges which persist. The keynotes will focus on the application of geo-spatial sciences and land administration in the drive towards facing up the global and societal challenges of our day, spanning global health, climate change, food security, among others.

- Dr. Tatenda Makanga, Senior Lecturer, Midlands State University, Zimbabwe.
- Kees de Zeeuw, Director, Kadaster International, the Netherlands.

# MEET THE KEYNOTE SPEAKERS AFRICA/EUROPE PROGRAMME



**Dr. Tatenda Makanga**  
**Senior Lecturer,**  
**Midlands State University,**  
**Zimbabwe.**

Dr. Prestige Tatenda Makanga is an applied geo-information scientist with a primary interest in global health. He holds a Ph.D. in Geography (GISc) from Simon Fraser University in Canada, an MSc Eng. in Geomatics from the University of Cape Town and a BSc (Hons) in Surveying and Geomatics from the Midlands State University in Zimbabwe. He teaches geographical information systems (GIS) and Spatial epidemiology at Midlands State University in Zimbabwe and co-leads 3 projects, including Mapping Outcomes for Mothers (MOM), RoadMApp and the health geography component of the PREgnancy Care Integrating translational Science Everywhere (PRECISE) network.

**Kees de Zeeuw,**  
**Director,**  
**Kadaster International,**  
**The Netherlands**



Kees de Zeeuw is director of Kadaster International at the Cadastre, Land Registry and Mapping Agency (Kadaster) in the Netherlands and co-chair of the United Nations Experts Group on Land Administration and Management (UN GGIM: EG-LAM). He holds an MSc degree in land and water management (1989). After long term contracts in Rwanda and Bolivia he has been working more than 10 years in environmental and geo-information sciences at Wageningen University and ResearchCentre. After being responsible at Kadaster for product and process innovation (2007 - 2010), he now is responsible for the coordination of Kadaster's international activities and international cooperation projects.

# Parallel Sessions

## 11.00-12.00 (UTC) Presentation Stream

The presentation allows young surveyors to follow presentations spanning Professional Development and Integrated Planning series and Management of Land and Water Resources from seasoned speakers in these areas.

### **Professional Development/Knowledge Sharing**

In rising to meet the challenges of our new reality, the relevance of a skillset responsive to the current demands is important. These comprise presentations from leaders of professional associations will address approaches to professional development, mentorship and knowledge sharing in this detached yet connected new reality.

- **Dr. Craig Hill**, Leica GeoSystems, Switzerland
- **Angela K. Etuonovbe**, AnGene Surveys & Consultants, Nigeria

### **Integrated Planning and Management of Land and Water Resources**

How can we transform the challenges of our new reality into new opportunities for a sustainable future? This session will address how integrated planning and management of land and water resources can be leveraged as a tool for sustainable development as we move forward.

- **Edgar Barreira**, ESRI, Portugal
- **Willy Franck Sob**, SOGEFI, Cameroun

# Meet the Speakers

**Dr Craig Hill** is the Vice President of Marketing & Services at Leica Geosystems in Heerbrugg, Switzerland. He received his PhD at RMIT University in Melbourne Australia. Dr Hill has been a core team member of numerous development projects in Leica since 1995.



**Edgar Barreira**, a very enthusiastic Geospatial Engineer, is a member of the ESRI Portugal Team. In the past 10 years, he has used GIS strategies to contribute for projects about in the geospatial world. Edgar was national leader of Ordem dos Engenheiros's Young Board.



**Willy Franck Sob** is the CEO of SOGEFI, a geospatial and land management company. He is also an active member in the OpenStreetMap Community with which he created <http://geo.sm>, a key infrastructure of developing countries' digital transformation.



**Angela K. Etuonovbe** is the Principal Consultant of AnGene Surveys & Consultants and the Managing Director of GFSH Consult Ltd. She is a Fellow of the Nigerian Institution of Surveyors (FNIS) and Fellow of Human and Natural Resources (FHNR).

## 11.00-12.00 (UTC) Panel Discussion

### **Agenda 2030: Sustainability in times of Uncertainty**

What does sustainability look like in a time of crisis? Covid-19 has awakened humanity to the fragility of our institutions in responding to crisis. However, it has also presented opportunities for growth and inclusion most especially in terms of and through technological developments, reshaping our understanding of sustainability and resilience. This session will try to address the question of what a sustainable future looks like, how we can prepare and build for it and the role of young surveyors as agents of change in this fight for the future of our planet.

- **Stella Chelangat Mutai**, IFAD, Kenya/Germany
- **Ruvimbo Samanga**, UNEC for Africa, Zimbabwe
- **Leen De Paepe**, Ghent University, Belgium
- **Dr Kenneth Hyiaman**, KNUST, Ghana

## 12.00-12.30 (UTC) Interactive Plenary Session

After listening to the panel discussion, and presentation series, the interactive plenary session will provide the platform for the speakers, panel members, and the audience to interact within the context of the session's context and close the loop on the activities of the session.

## 12.30 - 13.00 (UTC) Wrap-up and Closing

# Meet the Panellists

**Stella Chelangat Mutai** is enrolled as a PHD student at International Max Planck research school for global biogeochemical cycles in Jena, Germany focusing on the use of Data science approaches to the classification of ecosystem disturbances from use of satellite Earth observations.



**Ruvimbo Samanga** is an attorney, legal scholar, and policy analyst with a master's degree in International Trade and Investment Law. Ruvimbo works as a Consultant for the recently established Zimbabwe National & Geospatial Space Agency - ZINGSA and the United Nations Economic Commission for Africa - UNECA.



**Leen De Paepe** is a teaching assistant and doctoral researcher at the Social and Economic Geography Research Unit of the Geography Department at Ghent University (Belgium). Previously, she was employed as a geography teacher and worked for a mobility consultancy company.



**Dr Kenneth Appiah Donkor-Hyiaman** is a Property and Urban Economist and currently a Lecturer in property (finance, development and sustainability) at the Kwame Nkrumah University of Science and Technology, Ghana.



# SOUTH AMERICAN SESSION SATURDAY 15TH MAY, 2021 (15.00 – 17.00 UTC)

BUENOS AIRES (12.00 - 14.00 UTC-3)

CARACAS (11.00 - 13.00 UTC-4)

LIMA (10.00 - 14.00 UTC-5)

PROGRAMME

15.00-15.05 (UTC) Bienvenida

Rigoberto A. Moreno Vázquez (Moderador), México

15.05-15.20 (UTC) 15º Aniversario de la red de jóvenes FIG

Ruth Lailany Trujillo, Puerto Rico

Melissa Robert, Uruguay

15.20 -15.40 (UTC) Geomarketing

Cristian Araneda, Chile

15.40 -16.00 (UTC) Ética en el uso de los datos espaciales

Paula Caram, Uruguay

16.00-16.20 (UTC) Geomática en Proyectos de Salvamento Arqueológico

Cecilio Javier Cortés Arreola, México

16.20-16.40 (UTC) Modelo de Gestión de una IDE

Pamela Castillo, Chile

16.40-16.55 (UTC) Tecnología de radar satelital para la detección y monitorización de la deformación de la superficie terrestre

Daniel Hermosillo Camacho, México

16.55-17.00 (UTC) Despedida

# **NORTH AMERICAN SESSION SATURDAY 15TH MAY, 2021 (19.00 - 22.00 UTC)**

**NEW YORK (15.00 - 18.00 UTC-4)**

**CHICAGO (14.00 - 17.00 UTC-5)**

**VANCOUVER (12.00 - 15.00 UTC-7)**

**PROGRAMME**

## **19.00-19.20 (UTC) Opening**

The North American session will be opened by speakers from FIG, the FIG Foundation, the FIG Young Surveyors Network as well as the NSPS

- John Hohol, FIG Foundation President
- Kwabena Asiamah and Ferah Köksal, FIG Young Surveyors Network
- Denver Winchester, NSPS YSN President

## **19.20-20.00 (UTC) Keynote Session: Positioning for Success through Mentoring**

The speakers at the keynote session will focus on two key issues that are of great relevance to young surveyors starting their careers in the current world - Mentoring and Adaption to Crisis.

- Juliana Blackwell, Director, U.S. National Geodetic Survey, USA
- Jordan Lawver, Senior Business Area Manager, AR/MR/VR, Trimble, USA

# MEET THE KEYNOTE SPEAKERS NORTH AMERICAN PROGRAMME



## **Juliana Blackwell,** **Director,** **National Geodetic Survey, USA**

**Juliana Blackwell** is the Director of the National Geodetic Survey (NGS). As Director, she is responsible for the financial, administrative, and programmatic performance of NGS, the lead federal agency for positioning activities in the United States. She oversees the management and delivery of the National Spatial Reference System, the consistent coordinate system for latitude, longitude, height, scale, gravity, orientation, and shoreline information throughout the United States.



## **Jordan Lawver,** **Lead,** **Trimble Field Construction AR/MR/VR,** **USA**

**Jordan Lawver** has led the Trimble Field Construction AR/MR/VR business for the previous five years, overseeing the development, release, marketing, and sales for tools such as the Trimble XR10 with HoloLens 2, Trimble Connect for HoloLens, and Trimble SiteVision. Prior to his work in extended reality, Jordan spent two years in Trimble's Leadership Development Program, worked on NASA's Mars Rover and LRO programs, and received engineering degrees in Computer Vision, Photogrammetry, and Surveying from The Ohio State University. Jordan lives in Denver, CO with his girlfriend, Lauren, and two wiener dogs, Coco and Ruby.

# *Parallel Sessions*

## 20.00-21.15 (UTC) Presentation Stream

### **What practices are unsustainable that we didn't know were unsustainable in 2019?**

This session is all about sustainability: How do we promote sustainability in our own careers? Within the environment? Within the Surveying profession? Come listen to a variety of speakers give their opinions.

- **Anna Rios**, Aerios Geo LLC, USA
- **Elly Ball**, Get Kids into Surveying, United Kingdom
- **Jason Houle**, Leica, USA
- **Brent Jones**, ESRI, USA

# Meet the Speakers



**Elly Ball**, Co-Founder of Get Kids into Survey. In 2019, Elly took on the task of managing Get Kids into Survey and making it into a full-time business, since then they designed and distributed 17 exploration posters for kids aged 8-12, a hub of lesson plans and activities as well as produced a full-blown comic book with its official launch coming May 17th, 2021.

**Anna Rios, RPLS**, Owner of Aerios Geo LLC, is the President of Future Surveyors Foundation, Founder of the Women Surveyors Summit, Former FIG Young Surveyor State Representative and served as an Adjunct Professor for Austin Community College. Anna received the Texas Young Surveyor of the Year award in 2019.



**Jason Houle** has more than 25 years of experience in the surveying/geomatics/civil engineering industries. Today, as survey and geomatics sales and support specialist for Leica Geosystems, part of Hexagon, Jason helps other surveyors maximize their potential with technology.

**Brent Jones** oversees Esri's worldwide strategic planning, business development, and marketing activities for land records, cadastral, surveying, and land administration. Brent also specializes in modernizing existing land administration systems and designing new GIS-based cadastral management systems for small and large governments globally.



## 20.00-21.15 (UTC) Panel Discussion

**How did your group overcome the challenges of 2020?  
How should we prepare for the next crisis?**

2020 was more than just a year, it was one long series of challenges. How did different groups face and overcome a pandemic, lockdowns, social unrest, murder hornets, and everything else? A panel of experts from government, industry, academic, and other organizations will discuss

- **Ryan Hippenstiel**, National Geodetic Survey, USA
- **Alysen Tierney**, owner at United Grading and Surveying, USA
- **Omar Mora**, Cal Poly Pomona, USA
- **Claire Buxton**, FIG YSN Volunteer Community Surveyor Programme (VCSP), Canada
- **Davy McDowell**, NCEES, USA

## 21.15-21.45 (UTC) Interactive Plenary Session

After listening to the panel discussion, and presentation series, the interactive plenary session will provide the platform for the speakers, panel members, and the audience to interact within the context of the session's context and close the loop on the activities of the session.

## 21.45-22.00 (UTC) Wrap-up and Closing

# Meet the Panelists



**Ryan Hippenstiel, P.L.S.**, is the Field Operations Branch Chief for NOAA's National Geodetic Survey (NGS). Ryan's career spans multiple federal agencies and the private sector working in cadastral boundary, geodetic surveying, infrastructure, land development, and GIS.

**Alysen Tierney** has been a member of the FIG North American Network since 2014. She has been a State Representative for Wisconsin for 7 years. Alysen has been Surveying since she was in high school and has had her license since 2008. She is currently the owner of United Grading and Surveying.



**Dr. Omar E. Mora** is an assistant professor in the Civil Engineering Department at California State Polytechnic University, Pomona. His current research emphasis is on Unmanned Aircraft Systems (UAS), photogrammetry, Light Detection and Ranging (LiDAR), deep learning and geospatial solutions for civil, construction and environmental engineering.

# Meet the Panelists



**Claire Buxton** is a giver, a motivator, and the ambitious leader of the FIG Volunteer Community Surveyor Program. Outside of volunteering, Claire also works full-time in Vancouver, Canada at Underhill Geomatics. She is proud to be a Licensed Cadastral Surveyor in New Zealand and continually seeks further education in land-related challenges.



**Davy McDowell, P.E.**, is chief operating officer of NCEES, the organization composed of the nation's licensing boards for engineers and surveyors. In this role, he provides support to the chief executive officer as NCEES implements the decisions of its board of directors. He also serves as a liaison between NCEES and its member licensing boards.

# ASIA AND THE PACIFIC SESSION SUNDAY 16TH MAY, 2021 (02.00 - 04.30 UTC)

BEIJING (10.00 - 12.30 UTC+8)

TOKYO (11.00 - 13.30 UTC+9)

SYDNEY (12.00 - 14.30 UTC+10)

PROGRAMME

## 02.00 - 02.10 (UTC) Opening Session

The Asia and the Pacific session will be opened by speakers from FIG and the FIG Young Surveyors Network, and Asia-Pacific geospatial peak bodies.

- Kwabena Asiamah and Ferah Köksal, FIG Young Surveyors
- Roshni Sharma, SSSI Young Surveyors

## 02.10 - 03.20 (UTC) Keynote: How will the future be different for our industry?

Hear from inspiring, thought-provoking industry experts about cutting edge technologies, new ways of thinking, and the sorts of challenges that are changing the way we approach the art and science of surveying. We will hear from two special keynote speakers, to dig deeper into 'Challenges in our new reality: Reimagining a Sustainable Future'.

- Prof. Alan Duffy, Director of the Space Technology and Industry Institute at Swinburne University of Technology
- Dr. Balamurugan Soundarajan, Research Associate, City Futures Research Centre, University of New South Wales, Australia.
- Priya Gandhi, Senior Environmental Designer, Altier 10 and Homeward Bound 5

# MEET THE KEYNOTE SPEAKERS ASIA & PACIFIC PROGRAMME



## **Prof. Alan Duffy**

**Director, Space Technology and Industry Institute,  
Swinburne University of Technology,  
Australia**

Prof Duffy is the Director of Swinburne's Space Technology and Industry Institute, finding novel uses for astrophysical knowledge in aiding business and society on Earth. In particular, he leverages his experience of creating and visualising large supercomputer astrophysics simulations to explore Remote Sensing opportunities.

Alan was recently named Academic of the Year in the 2020 Australian Space Awards. He is also the Swinburne Node Leader in the new national ARC Centre of Excellence for Dark Matter Particle Physics and a Chief Investigator of SABRE, the world's first dark matter detector in the Southern Hemisphere, at the Stawell Underground Physics Laboratory.

## **Priya Gandhi**

**Senior Environmental Designer,  
Altier 10 and Homeward Bound 5.**



Priya Gandhi is a sustainability consultant passionate about creating a built environment that makes a positive impact on the natural environment. She believes that good design and knowledge-sharing can solve the climate crisis. While she does a little bit of everything, she especially enjoys using her technical analysis skills to help teams design buildings that are good for people and the planet. Priya has a B.S. in mechanical engineering and an M.S. in architecture, with experience in building science research and working in industry. She has been in the sustainability world for about a decade and currently lives in Melbourne, Australia.

# MEET THE KEYNOTE SPEAKERS ASIA & PACIFIC PROGRAMME



## **Dr. Balamurugan Soundarajan**

**Research Associate,**

**City Futures Research Centre, University of New  
South Wales,**

**Australia.**

Are you interested in: Learning about how open data can be used to explore and understand the impact of COVID-19 on the property market? How novel approaches using machine learning and artificial intelligence are being used to bring together industry, academia and government to disrupt the property industry? How we can model property valuation at a national scale in Australia to do this? Hear Dr Bala Soundarajan from the City Futures Research Centre at the University of New South Wales speak about the Value Australia Project and its COVID-19 property dashboard.

# Parallel Sessions

## 03.20 - 03.50 (UTC) Technical Stream

The Technical Stream will afford participants the chance to explore matters such as: how capacity building is progressing the SDGs, earth observation and precise positioning for surveyors, planning for the next pandemic and other climate change-related impacts.

- **Chris Marshall**, Frontier SI, Australia

## 03.20 - 03.50 (UTC) Professional Development Stream

The professional development stream will afford participants the chance to explore matters such as: diversity and inclusion, mentoring and soft skills.

- **Chetna Ben**, University of the South Pacific, Fiji
- **Laurie la Pat**, Homeward Bound Program

# Asia Pacific Parallel session speakers



Chethna Ben

**Chethna Ben** is an Assistant Lecturer at the University of the South Pacific, School of Land Management and Development. She is also part of the VCSP Team. Today she will be sharing about reflective practices as her topic as part of the knowledge portal goal for VCSP, and the theme for the YS conference on reimagining a sustainable future.



Chris Marshall

**Chris Marshall** is a Positioning Engineer at FrontierSI, Chris has leveraged his keen interest in spatial information and positioning technologies to help evaluate the performance of the systems, and promote the uptake of the forthcoming satellite infrastructure, while building a strong understanding of precise positioning techniques and the requirements of its industrial applications”

# Asia Pacific Parallel session speakers



Laurie Lapat-Polasko

**Laurie LaPat-Polasko**, has more than 27 years of experience in groundwater and soil remediation and wastewater treatment. She develops cost-effective remediation solutions for sites impacted by organic and inorganic compounds. She has dealt with contaminants ranging from fluoride and arsenic to chlorinated solvents, explosives and fuel compounds. She received the 2018 Gold Medal Stevie Award for Woman of the Year in Technology and the 2020 Society of Women Engineer Prism Award.

## **03.50 -04.20 (UTC) Interactive Plenary Session**

This interactive session will explore the question of 'What soft skills are required for leadership in our new normal for our industry', featuring graduates of the SSSI Mentoring Program from around the world.

Mentors: Inga Playle, Helli Kotasek, Kate Fairlie

Mentees: Oscar So, Minghze Li

## **04.20-04.30 (UTC) Wrap-up and Closing**

# Asia Pacific Interactive Session Speakers



**Inga Playle**, is a Spatial Information Specialist with Hydro Tasmania, a non-Executive Director of the Surveying and Spatial Sciences Institute (SSSI) and Chair of the Tasmanian Regional SSSI Committee. A keen supporter for diversity and inclusion, Inga gets a lot of value participating in mentoring programs and is always eager to learn new things.

**Helli Kotasek**, has over 30 years' experience, centred on geospatial and general data solutions. She has mainly worked in professional consulting services firms and has delivered data-driven solutions to clients in varied sectors such as mining, agriculture, transport, urban planning and many more.



**Mingzhe Li**, Mingzhe is currently a SSSI First Year Graduate member. Mingzhe is passionate about combining IT, mathematics and GIS skills to conduct data analysis, programming and visualisation in spatial stream. Focusing on the spatial information technology and its applications, to build a better world.

A SPECIAL THANKS TO OUR  
GENEROUS SPONSORS!



# ORG. **THE ORGANISING TEAM**

## **FIG Young Surveyors Team**



**Dr. Kwabena Obeng Asiama**  
(Ghana/Germany)



**Ferah Pirlanta Köksal**  
(Turkey)

## **Social Media and Communication**



**Ronja van der Roest**  
The Netherlands



**Tim Brouwer**  
The Netherlands

## **Finance, Registration & Logistics**



**David Elegbede**  
(Nigeria)

## **YS LOC Representative**



**Simone Emens**  
The Netherlands

# PROGRAMME TEAM

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## Africa and European Programme



**Shirley Chapunza**  
Zimbabwe



**Shyama Kalicharan**  
The Netherlands

## Asia and the Pacific Programme



**Roshni Sharma**  
Australia

## North American Programme



**Jacob Heck**  
United States

## South American Programme



**Melissa Roberts**  
Uruguay

# About FIG Young Surveyors Network (YSN)

The FIG Young Surveyors Network (YSN) has come quite a long way since the establishment at the FIG Congress in Munich in 2006. The contribution to the work of FIG and its 10 Commissions is the core of the Network. Ensuring that Young Surveyors are well represented and active in the FIG Commissions is imperative.

The YSN organise various events like meetings, workshops, conferences and trainings all over the world. Some of these events are recognized by and some are also organised in co-operation with leading associations like UN-Habitat, World Bank, FAO, CLGE etc. Those co-operations and partnerships are the key in showing that it is our generation who are the ambassadors and agents of change. Co-operating with world-leading businesses and sponsors enables us to inform and show future and up to date technology. The presence in media through publishing various articles, statements and comments in magazines, social media and forums leads to a worldwide recognition.

For more information about the Network and the current workplan have a look at the homepage: [Link](#)



# About FIG

The International Federation of Surveyors (FIG) is an international, non-government organization whose purpose is to support international collaboration for the progress of surveying in all fields and applications. FIG is the premier international organization representing the interests of surveyors worldwide. It is a federation of the national member associations and covers the whole range of professional fields within the global surveying community. It provides an international forum for discussion and development aiming to promote professional practice and standards.

FIG was founded in 1878 in Paris and was known as the Fédération Internationale des Géomètres. This has become anglicized to the International Federation of Surveyors. It is an UN-recognized non-government organization (NGO), representing more than 120 countries throughout the world, and its aim is to ensure that the disciplines of surveying and all who practice them meet the needs of the markets and communities that they serve.

For more information about FIG, its vision, role and its members have a look at the homepage: [www.fig.net](http://www.fig.net)

Ten commissions lead FIG's technical work:

- Commission 1 – Professional Standards and Practice
- Commission 2 – Professional Education
- Commission 3 – Spatial Information Management
- Commission 4 – Hydrography
- Commission 5 – Positioning and Measurement
- Commission 6 – Engineering Surveys
- Commission 7 – Cadastre and Land Management
- Commission 8 – Spatial Planning and Development
- Commission 9 – Valuation and the Management of Real Estate
- Commission 10 – Construction Economics and Management



Each member association appoints a delegate to each of the commissions. Detailed information on the work of the commissions, their work plans, working groups, seminars, newsletters and publications can be found at <https://www.fig.net/organisation/comm/index.asp>

# ***About FIG Foundation***

The FIG Foundation is an independent body within the International Federation of Surveyors (FIG), which has the primary purpose of raising funds to finance educational and capacity building projects and scholarships.

As such, the FIG Foundation endorses and encourages research in all disciplines of surveying while promoting high-standard training, education, and professional development. It also promotes the Surveying profession and all its facets, in developing countries and countries in transition. In the last few years, the FIG Foundation has been fostering the role of Young Surveyors within the profession and the FIG by seed-funding conferences, meetings and exchanges, in cooperation with international agencies such as the United Nations.

In fact, every year since its inception in 2001, the FIG Foundation offers grants and scholarships to promote education, training, capacity building and continuing professional development. As of today, the FIG Foundation has awarded 208 grants to deserving Young Surveyors from 75 countries, for a total funding of over €303,000.00.

***"Celebrating 15  
years of  
partnership!!!"***



THE FIG  
FOUNDATION

# CONGRATULATIONS TO THE FIG FOUNDATION GRANT WINNERS!!!

One of the purposes of the FIG Foundation is the funding of educational and capacity building projects and scholarships.

For this year's YSC, the Foundation has extended the Young Surveyors to 75 young surveyors from around the world to join the 6th Young Surveyors Conference. The partnership between the Foundation and the Network has been fundamental to the attendance young surveyors around the world. This year, this partnership has been put to the fore.

Abdullahi Nuhu Adamu - Abolade Olawuyi - Adamu Bala - Adetayo Onososen - Adewale Adedotun - Afeez Abubakar - Akbar Abubakar Azozo - Akintunde Damilola - Aliyu Abubakar - Andema Landry Kulimushi - Anne Nganga - Babatunde Michael - Basiri Abubakar - Beatrice Mwangi - Boaz Komen - Bogdan Avramchuk - Brian Chepkwony - Buhari Abubakar Buhari - Charity Manthi - Chibuzor Okafor - Chigozie Anene - Chin-Tse Wang - Danylo Kin - Denrazir Atara - Edmond Mazima - Ekpereamaka Ibenegbu - Emery Mugema - Emmanuel Ogunremi - Enock Ssebakiije - Enyinna Tochukwu - Eric Ndunda - Francois Murwanashyaka - Franco Arturo Nigro Carriere - Hamidreza Ostadabbas - Henry John - Innocent Laboke - Izzatu Anoh - Jor Fergus Dal - Jorge Steckler - Joseph Akinwale - Justice Okechukwu - Kazeem Olatunji - Lone Lottering - Lukumon Lateef - Matthew Ikuabe - Mariia Kuzminova - Mfonobong Duncan - Michael Oparah - Michelle Nagawa - Miracle Nwachukwu - Mourine Njoki - Moses Arojogun - Mustapha Mahmud Bakori - Laetitia Kalmogo - Nagya Saidu Kudu - Ngon Akuba - Nkurunungi Mazwe Ivan - Nor Ainn Alfatihah Zamzuri - Nutifafa Kojo Asare - Ohwotuemuhor Omamakpor - Oleksandr Petrovych - Opeyemi Okolie - Pawan Thapa - Ross Mowbray - Samaila Moses Philip - Samuel Abiodun Alara - Shakti Prakash Joshi - Sopekan Rillywan - Stephen Akuneto - Sunday Aina - Timothy Aminu - Tosin Olanrewaju Adesina - Victor Fameso - Viola Orina - Yuliia Loshakova