



WORLDWIDE UNIVERSITIES NETWORK



ANNUAL REPORT 2017-2018

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 **700,893** students enrolled at WUN universities

473,186 undergraduate
201,789 postgraduate

44,262 academic staff across WUN universities

 **2,602** years of academic tradition across WUN universities

 **88** Interdisciplinary Research Groups

 **133** conferences & strategic workshops

 **>£16.7 M** external funding catalysed by WUN collaboration

 **14** projects completed and retired

 **311** academic publications

 **28** engagements in policy development

*Figures are based on reports received from WUN Coordinators for the period 1 January 2017 – 31 July 2018. Data for the period of 1 January 2018 – 31 July 2018 is still being collected. The totals above are likely to be higher.

FROM THE CHAIR

As your new Chair from January 1, 2018, it is a pleasure to report that WUN is in excellent shape in its research, mobility and policy engagement, while we actively explore a major expansion in undergraduate mobility that will further bind our membership. The statistics shown at the front of this annual report provide the evidence of success in our research development and impact, and in our attraction of external funds to build sustainability and a platform for further development. As usual, we see many changes through the year, external and internal, including disruptors in policy and practice such as BREXIT and the geopolitical developments in the USA and China. We adjust and remain fleet and opportunistic in these arenas, while consolidating our contributions in research and evidence in our core Global Challenge activities. The Partnership Board met at the AGMs in May 2017 in New York and May 2018 in Perth, with steering group teleconference meetings in between, adopting a new strategic plan 2018-20, recruitment of a new Executive Director (see Future Directions), and a continuity of governance and direction in our worldwide research and education mission.



Professor Martin Paul

Chair

WUN Partnership Board

President

Maastricht University

FROM THE EXECUTIVE DIRECTOR

The competitive advantage of WUN is in its international research and education teams, communities of scholars who focus in addressing the selected global challenge areas. These relate to the current international policy frameworks, including the UN Sustainable Development Goals, the China Belt and road Initiative, the UN Paris Climate Accords, and relevant national policies. Under this umbrella, we build the quality and impact of our programs, the opportunities for emerging and established researchers, and the global approach to challenges that brings and focuses the thinking from many cultures. Our core statistics of 23 University members (an all-time high); 200 Associated WUN-Plus institutions from academia, business, government, international agencies and NGO's; four Global Challenge areas with 88 international programs; and over 2000 researchers, gives us our strength. We are a volunteer force, an experimental laboratory for internationalization and international engagement, and an opportunity and channel for our members and stakeholders to be a part of global development. This vision requires demanding teamwork and commitment, itself a challenge in global and local priorities when Universities and higher education are under pressure worldwide.



Professor John Hearn

Executive Director

Worldwide Universities Network

Professor of Physiology

University of Sydney

FROM THE ACADEMIC ADVISORY GROUP

In a global network of 23 partners on six continents, governance based on values is essential for success. Equal partnership, respect for cultures, access and equity, and the quality of programs require more than words. The Partnership Board of University Presidents and the Executive Director approve vision and directions, and the Academic Advisory Group (AAG) is responsible for reviewing and ensuring quality, fairness, competitiveness and impact. In particular, the AAG sets standards and teamwork criteria in the annual, competitive call for the Research Development Fund, in which WUN invests a significant portion of the subscription income. This annual exercise always brings up new initiatives that are distinct in their global teamwork and potential for innovation. In addition, the AAG is responsible for assessing the progress of WUN programs, while recommending new strategic initiatives and opportunities. The Chairs of the Global Challenge Groups (Education, Health, Climate, Culture), and the Enabling Groups (China, Africa, Policy Research) provide advice and recommendations to the AAG. As such, the AAG is a key fulcrum in advising the Executive Director and Board on academic priorities and choices.



Professor David Hogg

Chair

Academic Advisory Group

Professor

Artificial Intelligence, University of Leeds

NEW TO WUN

The Worldwide Universities Network welcomes new member University College Dublin (UCD), UCD President Andrew J. Deeks and his colleagues – we look forward to a productive partnership.

“As a strongly networked university with well-developed interdisciplinary structures, UCD can be an active contributor to WUN's Global Challenges”, said Professor Deeks. “I hope to work with our international peers to gather, share ideas and to contribute to the shaping of policy at an international level.”





BRINGING EVIDENCE-BASED OPTIONS TO INTERNATIONAL POLICY DEVELOPMENT

JOHN HEARN

WUN is no stranger to the opportunities and challenges in international policy development. Our approach has evolved to include three dimensions. Firstly, the translation of the research outcomes of the four Global Challenge Groups to being relevant for our knowledge partners; secondly engagement with policy makers in our workshops, meetings and partnership agreements; and thirdly the assessment and feedback to the research teams in tailoring research questions.

The WUN Global Challenge Group in Responding to Climate Change, working alongside the UN Paris Climate accords, is a participant in COP and in the membership of WUN scholars in relevant planning groups. The WUN Public Health Group was significant in advocating the inclusion of the NCDs in the UN SDGs and currently with WHO in the development of life course and ageing health research. The WUN Global Higher Education and Research Group engaged with OECD in forming the guide for higher education institutions in approaches to internationalization. The Understanding Cultures Group is actively engaged with the UN International Organization for Migration in data integrity, and in aspects of digital heritage.

In thought leadership, WUN holds up to 20 strategic workshops and conferences each year in pivotal policy development, bringing the global perspectives from six continents to bear on mutual challenges, and the teamwork from 23 partners that extends far beyond the capacities of the individual institutions. These expert workshops have

included topics from ageing health to zoological diversity, and from autism to planetary health. The outcomes of these forums are published and are included in policy position papers distributed to decision makers.

Each year at our AGM Conference the WUN Presidents Forum plays a significant role. The forum has included engagement with Africa (Cape Town 2014) giving rise to the WUN Global Africa Group; with China (Hong Kong 2015) giving rise to the WUN Global China Group; with BREXIT (Maastricht/Brussels 2016) in a recurrent research programme; and with the UN-SDGs (New York 2017) aligning WUN's global research and education priorities. This year in Perth, the ambitious Presidents Forum explores engagement with global policy frameworks, the research and education gaps where WUN can contribute; and the opportunities for emerging and established research leaders to play on the world stage. In a world of "Fake Data" knowledge integrity and knowledge partnerships are essential for effective progress and delivery. Our reputation, and our duty to society, is in our truth and our trust.

The future is open and bright for our researchers. WUN's higher education diplomacy is enduring. WUN can pioneer a model for interdisciplinary knowledge leadership, with local and global policy impact.

Our reputation, and our duty to society, is in our truth and trust



WORLDWIDE UNIVERSITIES NETWORK

STRATEGIC PLAN 2018-2020

A world leading research university network, tackling global challenges through international collaboration.

WUN is a global network driving international collaboration in research and education and developing research talent. Our membership spans 23 universities from 13 countries on 6 continents. We foster over 90 research programs, engage over 2,000 researchers and students, and work with government, international agencies and industry.

We exist to find solutions to some of society's most significant challenges and to improve quality of life.

Our research, informed (but not constrained) by the United Nations Sustainable Development Goals and other global policy frameworks is focused on four *Global Challenges*:

- Responding to Climate Change
- Public Health (Non-communicable Disease)
- Global Higher Education and Research
- Understanding Cultures

We take pride in being an experimental laboratory at the frontier of internationalisation. WUN is committed to:

- Research and education that is innovative and makes a difference
- Creating opportunities for established and emerging talent
- Attracting resources to sustain our world-class teams
- Creating access and advantage for our members.

This approach is backed up by strong governance and rigorous quality management. WUN is building on its achievements and teamwork to further strengthen relevance and capacity. We present here our vision, priorities and key strategies that will guide our network's development and future success.

VISION

As a leading international higher education and research network, we will be a force in developing innovative solutions to some of the world's most significant challenges.

MISSION

WUN draws upon the combined intellectual power and resources of its members to create opportunities in international research and education. It partners with government, international organisations and industry to stretch ambitions and develop the next generation of leaders.

WWW.WUN.AC.UK



VALUES

WUN's values underpin our approach to maximising the network's core strengths.

DEVELOP

WUN actively develops our global research alliance and education programs to meet our objectives.

NURTURE

WUN nurtures and invests resources in the intellectual strengths and priorities of our members.

INNOVATE

WUN seeks and instigates innovation in knowledge management and educational exchange.

COLLABORATE

WUN promotes opportunities that accelerate internationalisation for global collaborations between universities and with government, international organisations and industry on issues of global significance.

IMPACT

WUN exists to make a difference. Our research produces new knowledge that influences policy and impacts society to improve lives.



OBJECTIVES & STRATEGIES

1: STRENGTHEN OUR UNIVERSITY

- Develop and maintain a dynamic portfolio of research and education programs in alignment with WUN members' priorities.
- Strategically grow the membership as a network of peer universities with mutual strengths and regional diversity.
- Build ownership and leadership within WUN to increase collaboration, commitment and sense of community.

2: FOSTER INFLUENTIAL RESEARCH COMMUNITIES AND NURTURE RESEARCH TALENT

- Focus our efforts on four Global Challenges:
 - Responding to Climate Change (food security, urbanisation, oceanography);
 - Public Health (lifecourse approaches to obesity, heart disease, diabetes);
 - Global Higher Education and Research (access and equity, new technologies);
 - Understanding Cultures (migration, digital futures, ageing).
- Incorporate the Global Africa Group, Global China Group, and International Policy Research Group into our Global Challenge programs.
- Strengthen leadership and accountability to ensure quality and delivery.
- Create opportunities for the engagement and career development of talented researchers at the postdoctoral, postgraduate and undergraduate level in international research collaborations.

3: SUPPORT EDUCATION

- Educate global citizens and future leaders through undergraduate and postgraduate student mobility and joint education programs
- Support postgraduate and early career researcher development through an extension of the Research Mobility Program

4. ENHANCE THE VISIBILITY AND IMPACT OF WUN

- Position WUN as a recognised thought leader in our areas of expertise, engaging the WUN Presidents and experts as an international think-tank and as policy advisors.
- Increase the power of the "WUN voice" in an ambassadorial and lobbying role.
- Strengthen the WUN brand and profile with internal and external audiences, ensuring
- WUN is recognised for the vast potential of its intellectual resources.

THE FUTURE LIES IN OUR STRENGTHS

The landscape of global higher education and research is fast changing, with a revolution on the horizon. WUN is adaptive and uniquely placed to provide distinct advantage to our members in preparing for these changes. This strength will allow our community to lead strategic research and education that improves the quality of life around the world. That is our future.

WUN FUTURE DIRECTIONS

JOHN HEARN

The WUN Global Challenge Groups, Enabling Groups, Coordinators, AAG and Partnership Board met in Perth on May 22-23, 2018. They reviewed and revised the outcomes of the WUN Fundamental Review in 2017; and approved the draft WUN Strategic Plan 2018-20. These are the major future directions:

1. RESEARCH

The four WUN Global Challenge Groups have revised their strategic position papers, aligning appropriately with the UN Sustainable Development Goals and other relevant global policy frameworks including the Belt and Road Initiative, Paris Climate Change accords, and national policies.

2. ENABLING SUPPORT GROUPS

The Global China Group, Global Africa Group and Global Policy Research Group met to refine their roles in enabling WUN engagement in these continents and in WUN- wide engagement with policy initiatives as the SDGs, defining the research questions and evidence required. Each Group will develop its constitution, terms of reference and value proposition to ensure clarity and good governance.

3. EDUCATION 1

The WUN Education and Mobility program was reviewed. The Postgraduate Mobility Program (PMP) will be expanded to allow further research exchange programs between members and WUN- Plus partners. This program is open to PhD students, early career researchers and research staff.

4. EDUCATION 2

A new Undergraduate Mobility Program (UMP) will be developed with subsets of participating WUN members, enhancing and building on existing exchange programs to provide opportunities for undergraduate exchange in research internships, study abroad and summer schools.

5. KNOWLEDGE PARTNERS

WUN will continue to work with knowledge partners including international agencies (for example UN- SDSN, WHO, OECD, British Council, Association of Commonwealth Universities) governments and business, in joint development of strategy, programs and people.

6. ENGAGEMENT

Communications and Media. WUN will enhance its programs with conventional media (publications, thought pieces, commentary) and expand these efforts further across traditional and social media to promote its research and education advances.

7. HUMAN AND OTHER RESOURCES

WUN will give special attention to facilitating leadership development through research and exchange programs, and competitive bids to attract international and national funding towards long term sustainability of its research and education programs and partners.

8. MANAGEMENT AND IMPLEMENTATION

WUN will continue to develop innovative information and communication initiatives to improve efficiency of communication, management and implementation of its global research programs; and the necessary team building for maximum efficiency and impact.

9. SECRETARIAT SUCCESSION

Professor John Hearn, WUN Board Executive Director, completes his current role with WUN on 31 July 2018 (since 1 June 2009). The current Secretariat Dr Mike Hasenmueller, Associate Professor Grace Liu and Marije Nieuwenhuis will extend their current terms. They will work with the new Executive Director Dr Peter Lennie, The University of Rochester, to ensure a smooth continuation and transition.

These initiatives will be monitored and assessed regularly through the WUN Strategic Plan 2018-20.





GLOBAL CHALLENGES

RESEARCH HIGHLIGHTS 2017–2018

In 2017, global CO₂ emissions rose to a record high, and distrust between the world's major powers escalated perilously. Ongoing conflicts in Syria, Yemen and over a dozen other nations caused a dramatic spike in the number of displaced people. The surge in nationalist movements could easily have caused a wholesale retreat from internationalism to insularity. But people of conscience remained concerned beyond borders. Weapons of mass destruction, failure of climate change mitigation efforts, poverty, gender discrimination, food security and water crises stayed high on the list of issues they wanted solved – and soon. WUN's Global Challenges exist to develop innovative and practical ways to address such vital issues of public health, climate change, cultural understanding, and global higher education and research. This section contains just a small sample of our recent achievements. The full slate of research programmes is on pages 50–55.





GLOBAL CHALLENGE: PUBLIC HEALTH (NON-COMMUNICABLE DISEASES)

Non-communicable diseases (NCDs) such as heart disease, stroke, diabetes, chronic lung disease and cancer, now kill more than 40 million people worldwide every year. More than 80 per cent of these deaths occur in low- or middle-income countries. This epidemic places an enormous burden on individuals, families, societies and health systems—and increases the urgency to scale up public responses.

WUN's Public Health Global Challenge brings together a diverse team of experts in public health to explore socioeconomic, cultural and behavioural approaches to health. The team's work is informed by substantial evidence that maternal, perinatal, infant, childhood, and adult lifestyle factors contribute to the risk of developing NCDs later in life. Guided by the 2030 Agenda for Sustainable Development Goals and linked with other global initiatives, it supports projects that improve access to education, promote nutritional and health literacy, empower women and mothers, and promote healthy ageing – across the life course.

BOOSTING MATERNAL RESILIENCE AFTER WILDFIRE

There are signs an inexpensive and easily replicable journaling exercise can build resilience in pregnant women affected by natural disaster.

Sparked by a catastrophic wildfire in Canada, this pregnancy and child development study is testing a tool that has the potential to help thousands of victims of natural disasters across the world.

"This is the first natural disaster study I know of anywhere that has an intervention built into it," said PI Professor David Olson (University of Alberta), who is the academic lead of OPERA, a WUN-supported initiative dedicated to improving pregnancy outcomes for women and babies at risk.

Since November 2016, Dr Olson's team has been monitoring the effects of a simple journaling exercise given to women from Fort McMurray who were pregnant at the time of the wildfire or who became pregnant after the evacuation.

"While initial findings showed the women's anxiety and depression levels to be around three to seven times higher than those who'd endured other natural disasters, writing for 15 minutes a day on four consecutive days a week lowered these levels by a quarter to a third."

Elevated stress levels can have negative health effects on mothers and their babies, leading to developmental or behavioural issues—and even obesity, diabetes and cardiovascular disease. It can also lead to earlier deliveries.

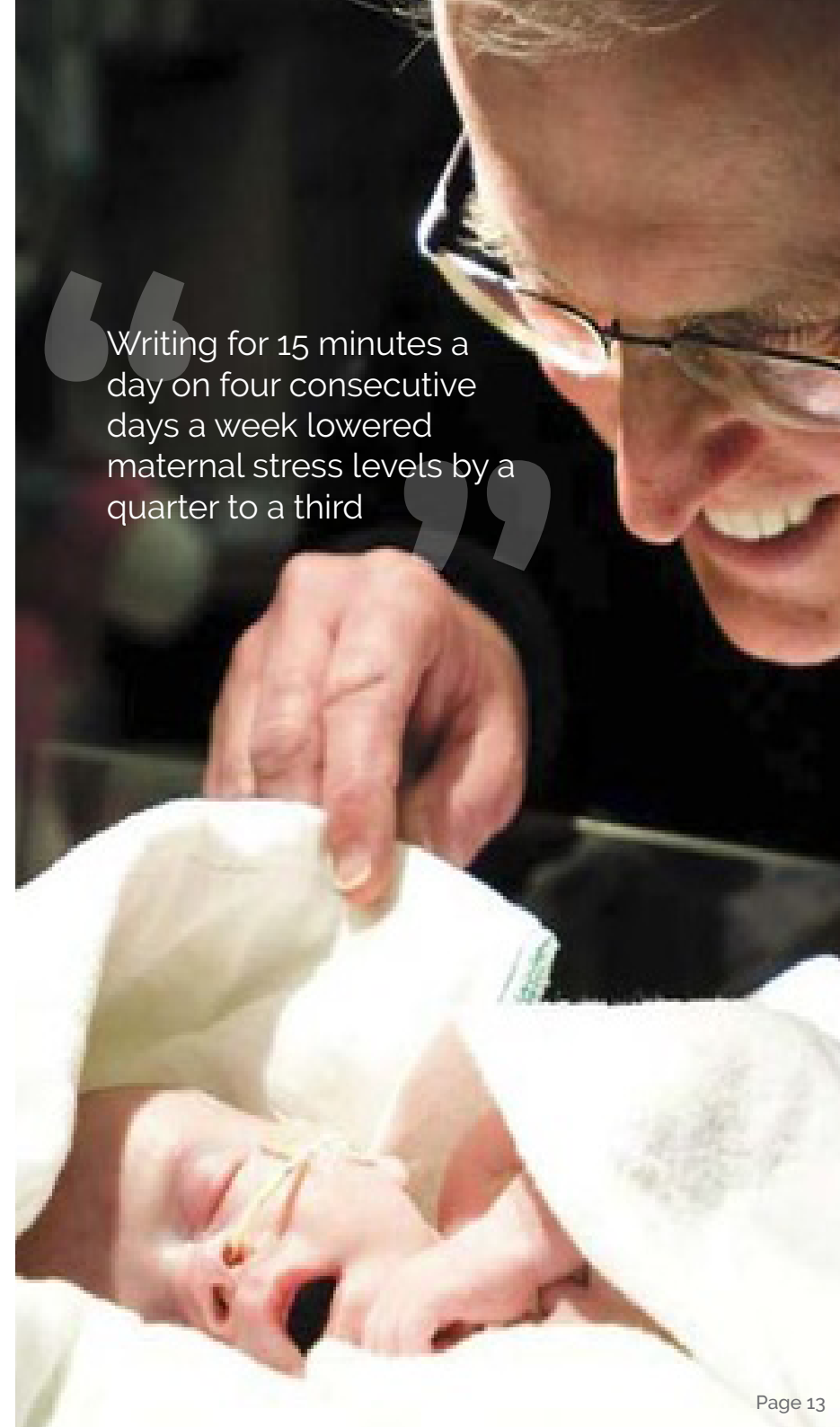
Ongoing data collection will help to determine if the intervention can lower maternal stress levels enough to mitigate risks to children's health and development.

The team will continue to trial and refine the writing intervention and test its effectiveness in different disasters. It has already duplicated the study in Texas to assess the effects on Hurricane Harvey babies and their mothers.

"The journaling exercise is important as it is relatively inexpensive to implement, can be done at a population level, and could be used virtually worldwide due to its simplicity. All you need is a cell phone or a paper and pencil."

HIGHLIGHTS

- Knowledge translation day held to share preliminary findings with participants and community in Fort McMurray in September 2017
- Application of Fort McMurray study protocol and journaling exercise to help women affected by Hurricane Harvey, which hit Houston in August 2017



“Writing for 15 minutes a day on four consecutive days a week lowered maternal stress levels by a quarter to a third”



Photo: Josephine Ki
(Australian Nursing Home Foundation)

NEW RESEARCH TO CURB AGED CARE CRISIS

There's a crisis of care in aged care – and this new study is targeted to address it.

This ambitious, UK-based research programme – developed with the support of WUN and harnessing the resources of 26 research centres in 16 countries – will focus on practical, scalable and sustainable solutions to reform a care system in crisis.

In the UK, as in some other advanced welfare states, this crisis manifests itself in regular examples of poor care, inadequate support for family carers, and mounting pressures on care services and staff.

The Sustainable Care: connecting people and systems research programme, devised by PI Professor Sue Yeandle (Sheffield) in collaboration with colleagues across the UK and the world, was awarded funding of £2,545,049 in the UK by the Economic and Social Research Council late last year.

Dr Yeandle and her eight research teams (Birmingham, London and Sheffield) began work in November 2017 to assess which sustainable care arrangements will work long term and not "paper over the cracks".

"The main question we want to answer through our research is, 'How can we get from this "crisis of care", and the miserable realities that lie behind it for so many, to "sustainable care", providing wellbeing outcomes for all?'" she said.

"New thinking and new action is urgently needed in this field – and our research can make a difference both in the UK and across the world.

"We want to improve the bigger picture – the structures, institutions, practices and policies that shape how care is organised. We also want to understand how it feels to give or to receive care, and the material, social and relational circumstances in which care occurs, and to effect positive change to support people experiencing this."

HIGHLIGHTS

- Funding of £2,545,049 awarded by the Economic and Social Research Council (2017) for Sustainable Care
- Establishing an international network of 40 overseas partner researchers, PhD students and senior scholars to support each other on common issues
- Published three journal articles and two book chapters, and presented at two policy forums and three symposiums in the US, Italy and Canada

Our goal is to bring sustainable care and wellbeing to people suffering from this care crisis

INTERGENERATIONAL EQUITY FOSTERS AND SUPPORTS HEALTHY AGEING

Intergenerational support enhances wellbeing across the life course.

"Ageing in place" is meant to improve the quality of life of older people and reduce the burden on health systems. But what happens when the population is ageing much faster, and families, friends and health services are more fragmented and geographically dispersed than in the past?

Children of ageing people also often have children of their own and other financial, emotional and practical needs for support. What assistance can they expect from their ageing parents? How do they feel when these expectations are not met? Whose needs matter most?

"Our research involved a systematic literature review and comparative study, which gathered insights from different health systems and a variety of cultural contexts," said PI Professor Eliza Wong (CUHK). "We explored the intergenerational roles of different stakeholders as well as equity in health services and community care for older people – all aimed at securing better outcomes."

Seed funding from WUN's RDF in December 2015 set the project in motion – with a 12-member team drawn from WUN partner universities Auckland, Bergen, Sheffield, Western Australia, Tokyo and Hong Kong, and WUN+ partner Alexandra Health System in Singapore. In 2017, £2,545,049 was awarded by the Hong Kong Jockey Club Charities Trust and £1,275,750 was awarded by the Research Council of Norway to help finalize the research.

At the WUN-supported Ageing and new media symposium in Perth in December, Dr Wong said, "Intergenerational equity should be incorporated into future policies to guarantee a fairer allocation of resources across age groups to ensure better health for everyone."

HIGHLIGHTS

- Investigators' workshops with 12 academics involved in the project presenting research at CUHK (April 2016, March 2017)
- Presentation of findings at the 49th Asia-Pacific academic consortium for public health conference
- £2,545,049 grant from the Hong Kong Jockey Club Charities Trust
- £1,275,750 grant from the Research Council of Norway
- Three new research collaborations with Dr Gary Cheung (Auckland) relating to informal care between two generations established (December 2017)

Incorporating equity policies will ensure a fair allocation of resources across all age groups





ARE PARASITES PIVOTAL TO YOUR OFFSPRING'S PULMONARY HEALTH?

Asthma and allergies are on the rise globally. Might preconception exposure to parasites hold the key to their prevention and cure?

Three years into a WUN-funded study of parasitic worms (helminths), PI Professor Cecilie Svanes (Bergen) is excited. Intriguing new data has revealed that the link between parasites and allergies differed across generations.

"This early research suggests that somehow helminths may be strongly involved in the increase in asthma and allergies over time," she said.

Professor Svanes is a lung specialist, and her lead collaborators in this WUN project are immunologist Dr William Horsnell (Cape Town) and epigenetics specialist Professor John Holloway (Southampton). They presented findings this spring at RHINESSA's meeting in Bergen and at WUN's InFLAME meeting.

Their research revealed that *Ascaris* (a helminth) among young Norwegians was associated with substantially lower lung function – only in men. They also discovered that if parents showed antibodies to the helminth *Toxocara*, this was a risk factor for allergies in their offspring – going from mothers to sons, fathers to daughters.

In early 2018, Professor Svanes was awarded the prestigious top researcher grant from the Research Council of Norway. This grant, and a recently awarded WUN Sustainability Fund grant, will enable her team to extend its study of helminths to populations in Estonia and Denmark, and to explore epigenetic mechanisms across generations.

"We now know that sperm – in addition to the genetic information in DNA – has a lot of epigenetic information.

"Our early analyses of humans suggest that young men's environment may be important for asthma and allergies in their future offspring, particularly during a vulnerable period in early puberty. If it is true that the environment of men before conception is important for the health of future offspring, this will profoundly alter policies in pursuit of optimal public health."

HIGHLIGHTS

- Awarded the large top-researcher grant from the Research Council of Norway (2018)
- Secured a four-year PhD grant for a young researcher from Estonia to be supervised by our interdisciplinary and multinational expert team (January 2018)
- Awarded a WUN Sustainability Fund grant (April 2018) to further the helminth research with Cape Town South Africa, Bergen Norway, Aarhus Denmark, Southampton UK and Tartu Estonia and Maastricht University as the main collaborators

“Young men's environment may be important for asthma and allergies in their future offspring”

GLOBAL CHALLENGE: RESPONDING TO CLIMATE CHANGE

In 2017, almost 317 billion tonnes of CO₂ emissions were pumped into the atmosphere. More than 15,000 scientists from 180 countries also signed off on a journal article in *BioScience*, which warned the fight against climate change must be accelerated to prevent global environmental collapse.

The One planet summit in December focused on positives – confirming unprecedented government and private sector support for climate action. It also supported the mobilisation of finance for the implementation of the Paris Agreement and moves to pressure businesses to “green” up their act.

WUN's Global Challenge Responding to Climate Change recognises that shifts in our climate are leading to significant habitat and environmental changes, food and water shortages, and population displacement and migration. It draws experts from across the globe to explore sustainable responses to these changes and to mitigating their effects.

Collaborative and multi-disciplinary research programs deliver practical insights of use to policy-makers grappling with food and environment security issues, including the realities of deforestation, depletion of oceans, endangered and extinct species, fresh-water pollution, forced migration and declining urban liveability.





We have a chance to bring climate change perspectives into these developments and make them more climate-smart

CREATING SUSTAINABLE DEVELOPMENT CORRIDORS IN EAST AFRICA

Training a new generation of researchers to address climate change is a key challenge for growth corridors.

Development corridors are increasingly used to support economic growth and boost agriculture in Africa – but they can easily destroy wildlife routes, livelihoods and undermine broader functioning and support derived from ecosystems and biodiversity. To protect these environments, WUN's African Mountains collaboration has assisted a consortium led by the UN Environment World Conservation Monitoring Centre (WCMC) to secure funding for a global partnership that links African, UK and Chinese researchers. The UNEP-WCMC consortium ACACIA plans to examine a number of the proposed corridors – including one that runs east to west through central Tanzania and others that pass through Kenya, onto Uganda and ultimately connecting to West Africa.

PI for WUN's African Mountains collaboration, Professor Rob Marchant, will lead the University of York contribution into the ACACIA's Training for development: East African growth corridors and the China to Africa connection project.

A £5,900,0000 grant from the Economic and Social Research Council (ESRC) of the Global Challenges Research Fund (GCRF) will support his team to equip local researchers to ensure those planning corridor visions can make informed, evidence-based decisions. A key goal is to train researchers in Kenya and Tanzania to make the business case for the integration of natural capital into corridor design.

Professor Marchant has extensive experience in how to establish equitable paths to a more sustainable future

for African mountains. He has also studied the drivers of landscape change according to various climate change and socio-economic scenarios. And he connects very closely to another European Union funded project working on assessing ecosystem services and development challenges across equatorial Africa – the AFRI-SKYFOREST project being led by Dr Aida Cuni-Sanchez.

"The project will link the research done in eastern Africa to the work of Chinese research institutions who advise on Chinese development spending in Africa," Professor Marchant said.

"By increasing knowledge of the issues and opportunities associated with development corridors in Africa, investment activities can be designed to be socially and environmentally sustainable."

HIGHLIGHTS

- Secured funding of £5,900,0000 from the ESRC GCRF to the ACACIA consortium to conduct Training for development: East African growth corridors and the China to Africa connection, led by PI Professor Neil Burgess (UNEP-WCMC)
- IPBES Africa chapter submitted with Professor Chris Gordon (Ghana) as lead, Professor Rob Marchant (York) as contributing author
- European Union funded AFRI-SKYFOREST project working on assessing ecosystem services and development challenges across equatorial Africa led by Dr Aida Cuni-Sanchez

SUSTAINING LANDSCAPES AND LIVELIHOODS IN THE SOUTH PACIFIC

A new platform to identify climate-smart adaptations in Fiji and Tonga will assist communities vulnerable to climate change.

An international consortium of WUN academics and Asia-Pacific partners, fostered by a WUN-funded initiative in 2013, has launched a new, four-year research project thanks to an £875,200 grant from the Australian Centre for International Agriculture Research (ACIAR) to further its work.

“Our initial research, funded by WUN, laid the foundation for applying spatial-based methodologies to assess environmental security for livelihoods in the Asia-Pacific region,” said PI Dr Ellie Biggs (UWA).

“Now we’re using participatory action research to develop a geospatial platform, which will help to identify climate-smart landscape-adaptation responses in Fiji and Tonga.”

While many communities in Fiji and Tonga derive services from rural landscapes to support their livelihoods, they are also acutely vulnerable to the impacts of climate change and variability, and other stressors. “Our team will work collaboratively with communities, universities, government agencies and not-for-profit organisations to enhance environmental livelihood security under pressure from a changing climate, to promote landscape sustainability in the South Pacific.”

The project features the “co-development” of a dynamic collaborative geospatial platform – bringing communities and higher-level stakeholders together to communicate more effectively about environmental security issues. It will also harness people’s local and traditional knowledge to ensure the complexities of human-environment interactions and adaptive strategies are well understood.

Dr Biggs is a member of WUN’s Responding to Climate Change (RCC) Steering Committee and led a discussion about the Water-Energy-Food nexus during an RCC workshop in Perth in May 2018.

The three-day workshop also featured a visit to the UWA Future Farm, charted the extensive work and successes achieved by WUN’s Global Farm Platform Group, and set the future direction for WUN’s RCC global challenge.

“It was great to brainstorm new ideas and to shape a plan that complements existing research successes and contributes to achieving global climate-change and environmental sustainability targets.”

HIGHLIGHTS

- Securing ACIAR grant of £875,200 for the four-year research project “Climate-smart landscapes for promoting sustainability of Pacific Island agricultural systems”
- Commencement of the project in Fiji and Tonga (2018 to 2021), which builds on five years of research relating to environmental security for livelihoods catalysed by a WUN-RDF grant in 2013
- Development of www.livelihoodsandlandscapes.com website to communicate the goals of the research project
- Lead academic for WUN-RCC roundtable discussion exploring the Water-Energy-Food nexus (May 2018)

“ Collaborative mapping approaches, which capture the complexities of livelihood-landscape interactions, empower community members in their environmental decision-making ”



Photo: Ragnhild Overå (UiB)

SMALL FISH COULD YIELD BIG IMPACT ON FOOD SECURITY

Small fish have huge potential to alleviate malnutrition and safeguard food security in Sub-Saharan Africa and across the globe.

Researchers from WUN's member universities in Bergen (UiB) and Ghana (UG) are playing key roles in a new multidisciplinary consortium committed to harnessing the potential of small fish by promoting awareness of their nutritional value and ensuring their sustainable production. Consortium members from the Netherlands, Germany, Kenya and Uganda are also central to achieving its goals.

"Small fish are vitamin and micronutrient bombs," said Jeppe Kolding professor in fisheries, specializing in small-scale fisheries in developing countries at the University of Bergen (UiB). "Catching small fish, which are sun-dried and consumed whole, is also the most high-yielding, eco-friendly, low CO₂-emission and nourishing way of utilizing aquatic resources."

The SmallFishFood consortium aims to shift small fish – including sardines and small indigenous species (SIS) – to the forefront of the global food security agenda.

To accelerate this shift, a two-day workshop in Bergen in March 2018 highlighted the advantages of utilizing small fish as a pro-poor livelihood and food resource; identified barriers to small fish utilization; and shaped strategies to integrate small fish into food systems to improve nutrition.

In May 2018, the SmallFishFood research team secured a significant EU-Africa Leap-Agri grant. The £900,000 has enabled the team to embark on a large, long-term project in Sub-Saharan Africa, which takes its starting point from the fact that nutrients in fish can play a significant role in combating the triple burden of hunger, micronutrient deficiencies and non-communicable diseases.

Professor Kolding, who is the coordinator for the new project, said the research directly addressed SDG2 (Zero hunger), and SDG14 (Life below water).

The long history of collaboration between UiB and UG nurtured through WUN will also help smooth the way as researchers conduct value chain (food system) research in four interconnected teams examining fish harvesting, nutrition and food security, governance, and processing and marketing.

"The intended impact and potential ramifications arising from our research are huge," said Dr Kolding. "Unleashing the full potential of small fish to enhance nutrition will be of global relevance in achieving the SDGs."

HIGHLIGHTS

- Two-day workshop Small fish for food and nutrition security in Bergen (March 2018) targeting opportunities for further research and funding opportunities
- Secured funding from EU-Africa Leap-Agri to pursue a large and long-term research project (May 2018) Involvement of Masters students from UiB and UG in the Small Fish Food network research, as well as an emerging scholar/young lecturer (PhD 2016) from UG

“Small fish are vitamin and micronutrient bombs”

WATER, ENERGY AND FOOD UNDER A CHANGING CLIMATE

WUN's Responding to climate change academic workshop in May 2018 broadened the research agenda for this vital global challenge.

Forty visitors from WUN member-institutions across the world were confronted with the impact of climate change on water and food security during a visit to a University of Western Australian (UWA) farming project exploring innovative measures to help address it.

The Future Farm 2050 Project is based on the UWA Farm Ridgefield, a 1600-hectare farm near Pingelly in Western Australia, southeast of Perth. It has partnerships with a number of international projects focused on sustainability including the Global Farm Platform – a WUN-supported multidisciplinary group of scientists committed to research on the contribution of sustainable livestock production to global food security.

Speaking inside a shearing shed onsite at Pingelly, Future Farm 2050 Project Leader, Professor Graeme Martin (UWA), outlined the project's vision to be a "best-practice farm for 2050, but do it now". His UWA colleagues, Professor Wallace Cowling and Professor Matthias Leopold also shared their knowledge of the region and its unique agricultural and environmental challenges.

The Future Farm visit formed the first day of WUN's Responding to Climate Change (RCC) workshop (May 20 to 22). The second day, back in Perth, featured talks on topics ranging from sustainable agricultural systems to social farming, and urban water management to water-energy-food nexus policy.

Dr Ellie Biggs (UWA) said a highlight for her had been hearing how leading international agencies such as the Stockholm Environment Institute, FutureEarth, and Monash Sustainable Development Institute are implementing research that's leading to action addressing the SDGs under a changing climate.

An interactive session on the third day helped the group to identify strategic research priorities. These include food security (including marine foods); renewable energy from wind, tidal/wave, and biofuels; plastic production and plastic waste, especially microplastics; blue economy; smart climate services through big data; and Indigenous knowledge for building cultures of climate resilience.

Professor Susan Gourvenec (Southampton) said she'd enjoyed the Perth forum and looked forward to ongoing involvement.

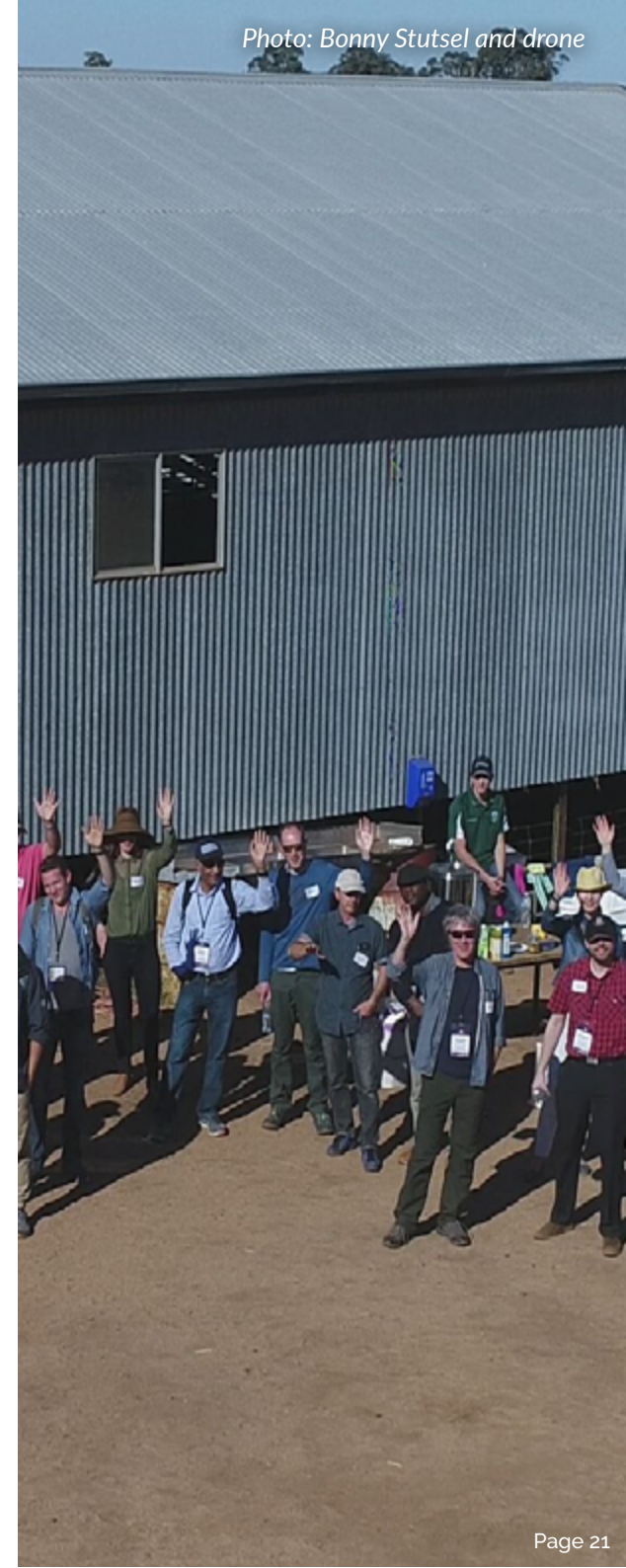
'The WUN annual workshop provides a fantastic forum for learning of recent outcomes from, and creating opportunities for, collaboration internationally and across disciplines to address grand challenges.

'I'm excited to be joining the Responding to Climate Change group, particularly now with its reshaped research agenda that embraces the critical role of the oceans in mitigating and responding to climate change.'

HIGHLIGHTS

- Visit to the Future Farm including a drone demonstration by PhD researcher Bonny Stutsel (UWA) who uses similar technology to assess frost damage in wheat
- Speakers from international agencies who shared research that's leading to action in addressing the SDGs under a changing climate.
- Broadening RCC's research agenda to include oceans and their role in mitigating and responding to climate change.

Our research agenda now embraces the critical role of oceans in responding to climate change



GLOBAL CHALLENGE: UNDERSTANDING CULTURES

Racial and cultural tensions continue to simmer across the world. For example, inter-communal violence in Tanganyika Province, Democratic Republic of the Congo, has internally displaced over 630,000 people from a population of around 3 million. Political parties that brandish the harshest immigration policies also continue to gain popularity and power.

Amid this uncertain global political and economic environment, there is an urgent need to reaffirm support for cultural diversity and to shape policy that creates connections between people from diverse backgrounds.

WUN's Understanding Cultures cluster is guided by the understanding that the international community can more easily achieve the 17 Sustainable Development Goals (SDGs) by drawing on the wisdom and creative potential of diverse cultures.

It unites scholars from humanities and social sciences with those from other disciplines, to explore solutions to critical, transnational cultural challenges. In 2018, it is convening three workshops to find ways to achieve and exceed the aims of SDG 16 in West Africa. Insights gleaned will contribute to a better understanding of why resilience approaches in peace building efforts fail or succeed – by examining how they are received at the local level.



Group of Congolese women showing the number of children who have been abducted from their families during the conflict in Tanganyika Province

Photo: UNHCR/Colin Delfosse

MAKING MIGRATION MORE HUMANE

WUN is collaborating to help inform and develop a more humane global strategy relating to migration.

Migration has shifted to the top of the global policy agenda and, for the first time, it is included in the global development framework – the 2030 Agenda for Sustainable Development.

WUN's Migration, Development and Global Transformation collaboration (MGDT) is in the vanguard of networks committed to forging more humane migration policies and understanding.

MDGT's principal external partner is the International Organization for Migration's Global Migration Data Analysis Centre (IOM-GMGDC). This collaboration has led to a strategic alliance between WUN and IOM, which aims to fill key gaps in the global knowledge base on migration in order to better inform global policy and practice.

Selected achievements of MDGT and WUN-IOM from the past year illuminate progress. These include:

- Completion of the first student internship from the WUN-IOM collaboration at GMGDC.
- A summer school organized by the University of Bristol as part of the agreement between IOM-GMDAC and WUN to improve the skills of, and the communication between, data producers (NSOs) and data users (policy-makers), especially those from developing countries.
- The participation of WUN members in a number of international fora, which directly addressed the need for better data for development to address the SDGs.

WUN's three-day workshop *Cultures in flux: Migration and cultural dynamics in the past and present*, held in Perth, May 20-22, 2018, provided an excellent opportunity to examine the aspects of culture people draw on when

faced with the dangers of forced and unsafe migration as well as how heritage can help people deal with the associated trauma.

Ann Singleton (Bristol), Vice Chair of WUN's Understanding Cultures Global Challenge Steering Group (Migration theme) and academic lead of MGDT, said initiatives such as the Migration Data Portal, as well as MGDT ventures fed into global capacity building; improved data and analysis for migration and development; and would inform discussions of the Global Compact on Migration.

HIGHLIGHTS

- Three-day workshop in Perth, May 2018
- Visits by Dr Devyani Prabhat (University of Bristol) and Dr Hong-Jae Park (Western Sydney University) to WUN partner universities to pursue migration-related collaboration and research.
- The role of heritage during migration and displacement, symposium in Amherst, April/May, 2017
- Ann Singleton co-edited the *Handbook for Improving the Production and Use of Migration Data for Development*, launched in December 2017
- Successful student internship and summer school (details in the story above)

“Global development is only sustainable if people can migrate in safety”





WHO DOESN'T HAVE A CELL PHONE?

What does mobile phone usage in Africa and small-town hospitality to queer people in South Africa reveal about globalisation as it's encountered in the margins and peripheries?

It was answering a question in South Africa's 2016 community census about cell phone ownership that prompted PI Ana Deumert's (Cape Town) to launch a new study into texting in Africa.

"What we discovered was that the rise of mobile phones across the continent has enabled the emergence of technologically mediated literacies, text-messaging among them," Ms Deumert said. "We also found that while former colonial languages, especially English, are dominant in many prototypical text messages and on Twitter, the genre also provides important opportunities for writing in African languages."

"Texting in Africa" is one of four papers Ana Deumert published in 2017. A second co-authored with Nkululeko Mabandla, is "A luta continua – Black queer visibilities and philosophies of hospitality in a South African rural town" – a study focused on a small, rural town in the Eastern Cape, the researchers called Forestville.

"In this case the data revealed that, while LGBT+ identities are welcome and included, this hospitality remains fragile; it is always on the border of exclusion and judgment."

"A luta continua" grew from WUN-funded work on globalisation at the margins, showing that the small towns and rural contexts are just as important for understanding globalisation as large cities.

An early highlight of this work was the WUN workshop, Multilingualism and mobilities: Understanding globalisation, hosted at the University of Cape Town in October 2015. This spawned a network of interdisciplinary

researchers across the world (including Sheffield, Maastricht, Ghana, and with WUN+ partner University of the Western Cape) that continues to expand and contribute to scholarship.

Despite funding challenges, work related to the WUN-project *Understanding Globalisation – Margins and Peripheries* continues – and with good success. Mr Mabandla and Ms Deumert have been asked to submit a paper on their work on Chinese migration and trading to a collection that will be edited by Shuang Gao and Xuan Wang. A strong research focus in future will be to explore south-south connections.

HIGHLIGHTS

- Four papers published in 2017 including: "Texting in Africa"; "A luta continua" (full details above); "Creole as necessity? Creole as choice? Evidence from Afrikaans historical sociolinguistics"; and "Towards a sociolinguistics of the contact zone – comparative reflections on the linguistic legacies of German colonialism"
- Request to submit a paper on Chinese migration and trading to an international collection

Small towns and rural contexts are just as important for understanding globalisation as large cities.

HERALDING A NEW ERA OF OPEN SCHOLARSHIP

Roman and Japanese cultural heritage formed the backdrop for this Open WUN workshop, which probed the challenges and opportunities of open scholarship.

A five-day workshop in Japan drew experts and emerging scholars from across the globe to explore concrete examples of supporting and benefitting from open scholarship in the context of digital cultural heritage.

Fifty-seven academics and creative industry representatives converged in Kyoto to take part in "Digital cultural heritage business and open data: Bringing Rome to Japan" at Ritsumeikan University from June 24 to 28, 2017. Co-hosted by the University of Southampton and Ritsumeikan University, the event forged closer working relationships between participants from WUN and RENKEI universities.

Structured around a series of interconnected themes relating to cultural heritage and open scholarship, the workshop broached: barriers and criticisms; best practices, business models in higher education and private sectors (including cultural tourism); alternative publication models; privacy and ethics; and government data. Participants shared their expertise in digital aspects of archaeology including Southampton's MOOC on the Archaeology of the Roman site of Portus and cultural-heritage computation. They also visited heritage sites in Kyoto to experience how digital technologies can be used on site to enhance visitors' learning and engagement.

Coordinator of the WUN Open research group, Eleonora Gandolfi (Southampton), who has helped facilitate the group with Professor Stephanie Moser (Southampton), said WUN contributors to the workshop included international experts in Understanding Cultures (digital cultural heritage) and Global Higher Education and Research (access and mobility), which are two of WUN's Global Challenges.

"The meeting in Kyoto gave us a great opportunity to showcase WUN's strengths in open scholarship and to manifest its capacity," she said. "We also explored new research funding opportunities and started to discuss a pilot to demonstrate the research potential for integrating open scholarship activities within the WUN community."

Conversations in Japan led Ms Gandolfi and several workshop participants to collaborate in the Kapu Blockchain project. The project raised over £508,300 in cryptocurrencies via an ICO (Initial Coin Offering) and aims to develop the first archaeological blockchain to preserve heritage data. Ms Gandolfi and colleagues are assisting the development team to build a tool that suits access, use and re-use of digital data relating to heritage.

HIGHLIGHTS

- Open WUN workshop in Japan, strengthened and developed new links between WUN and RENKEI partners (presentations recorded [online](#)), June 2017. A second workshop in mid 2018 will explore training/education, blockchain and data management; cultural heritage standards and open data. Follow up will include publication of a white paper and work on a pilot that demonstrates the research potential for integrating open scholarship activities within the WUN community

We're assisting the team that's developing the first archaeological blockchain to preserve heritage data





NORWAY WIDENS COOPERATION TO REACH SDG TARGETS

Each country must grapple with its own unique cultural mores and national priorities to discern how it will reach global SDG targets. Norway is engaging its university sector to help take the lead ...

In February 2018, WUN member, The University of Bergen (UiB), organized a major conference on the role of Norwegian universities in relation to the UN Sustainable Development Goals (SDGs).

More than 290 people took part in the two-day SDG Conference Bergen, hosted by UiB in cooperation with Norway's Ministry of Foreign Affairs and the Ministry of Education and Research.

The objective was to engage Norway's research and higher education communities, politicians, government officials, NGOs and industry in a discussion on how universities can contribute towards implementation of the SDGs.

In her keynote address, Norwegian Prime Minister Erna Solberg said harnessing the resources of universities, academia and researchers would be pivotal in moving ahead at the pace needed to break down the barriers to achieve the SDGs.

"Creative environments such as these are needed to break barriers and move ahead in all areas, such as green technology, health, governance. To mention a few."

UiB's Rector, Professor Dag Rune Olsen, said only broad interdisciplinary research and education could add weight to achieving the 17 SDGs, adding that he believed future conferences in Bergen would provide an important arena for debate about the UN's 2030 Agenda.

Other speakers, including WUN's Executive Director, Professor John Hearn, reinforced the role universities play as knowledge creators, implementers of the SDGs, and as role models (as they transform themselves in line with the SDGs). Engaging young people and their creativity was also seen as crucial to helping Norway, and the world, make the fundamental changes necessitated by the 2030 Agenda.

Through five plenary sessions and related workshops conference participants sought to widen the cooperation needed to reach SDG targets. UiB also announced it will be climate-neutral by 2030, and that SDG Conference Bergen will now be an annual event.

HIGHLIGHTS

- UiB hosts SDG Conference Bergen to help Norway harness the resources of scholars and universities to reach SDG targets
- UiB commits to holding an annual SDG conference and to being carbon neutral by 2030

Norway recognises scholars and universities as key to meeting the SDGs



TAKING HERITAGE BEYOND PRESERVATION

Threats to cultural heritage from war and climate change have often been viewed through the limited lens of protecting people's tangible heritage, like buildings and artefacts. WUN is working to broaden the scope.

Culture and cultural heritage have a prominent place in the 2030 Agenda for Sustainable Development where they are given a central role in international development.

What's been lacking in the research is a comprehensive approach to the importance, value and use of all types of heritage (moveable and immovable, tangible and intangible, natural and cultural) to society, and to the role heritage plays in reducing the trauma of change and displacement.

An international conference in Amherst in April/May 2017, hosted by WUN's Understanding Cultures Global Challenge Group, and the Centre for Heritage and Society of the University of Massachusetts, went some way to addressing the gaps. It also highlighted how WUN can contribute to policy and practice in relation to forced displacement, refugee movements and the protection of vulnerable migrants.

A second conference in Perth in May 2018 further broadened the consideration of heritage beyond preservation.

"The workshop opened up opportunities for cross-disciplinary approaches to research into culture and 'the making of society,'" said Associate Professor Tore Saetersdal (UiB), Chair of WUN's Understanding Cultures Global Challenge Steering Group, "We also examined how culture helps people tackle the refugee situation and settle in a new land, and how new cultures shape the world we live in today."

WUN consists of universities from all parts of the world, Professor Saetersdal said, which means it has access to different data and different migrant populations and widely different aspects of cultural heritage. For example, the University of Nairobi recently became a WUN member. This means new collaborations and exchange projects have been planned for cultural-heritage management partnering with the National Museums of Kenya. Other WUN members will also be invited to join the collaboration.

HIGHLIGHTS

- Forty-six academics presented research from South Korea, the Mohegan and Montauk tribes in the USA, Lesvos in Greece, Aceh in Indonesia, Port Arthur Australia and other diverse cultures at a WUN symposium in Amherst, Massachusetts (2017)
- Scholars shared insights from research about rock art and migration, the heritage of migration within Asia (i.e. the Silk Road Project), original human migrations through Asia and Australasia and more at WUN's workshop Cultures in flux: Migration and cultural dynamics in the past and present in Perth, May 2018
- New collaborations planned between UiB and the University of Nairobi

We want to explore the role heritage plays in reducing the trauma of displacement



GLOBAL CHALLENGE: GLOBAL HIGHER EDUCATION AND RESEARCH (GHEAR)

The Global Higher Education and Research (GHEAR) Challenge supports the vision of inclusive, high quality 21st century universities that contribute to sustainable development. It is also committed to engaging with the needs of individuals and groups whose participation in higher education is constrained by the under-development of higher education systems. At the heart of this challenge lies the question: What research and scholarship will promote the ongoing development of equitable, contextually relevant, high quality and accessible higher education throughout the world? In 2018, GHEAR reshaped its research agenda and refreshed its action plan. Areas of focus now include: The research role of global higher education institutions (HEIs) in discerning how HEIs are shaping and are shaped by society, and are shaping and shaped by students; the legitimacy and authority of the university in a changing world; and the impact of various mobilities on higher education. GHEAR's focus and purpose is aligned with the United Nations Sustainable Development Goals (SDGs) for 2030 in its commitment to leaving none behind. Researchers will also seek to work collaboratively across the network to analyse the drivers of today's higher education challenges and propose reforms.



'MY MUM THINKS I'M A PROFESSOR'

Charting fresh academic territory, this cross-cultural examination of the experiences of first-generation students also explores how universities might better serve them.

My mum dropped out of school in Year 7, so she thinks I'm a professor. As far as she's concerned, I'm running this uni. She barely negotiated the school system but, yeah, she's very proud.

Vanessa is an Indigenous Australian, and the first in her family to attend university. Hers and similar stories feature in a new book, which captures the diverse experiences of first-generation students at seven higher-education institutions in six countries.

Understanding experiences of first generation university students: Culturally responsive and sustaining methodologies was published by Bloomsbury in February.

Co-edited by Dr Amani Bell (Sydney - at the time of publication) and Associate Professor Lorri J. Santamaria (Auckland), it represents four years of collaborative work inspired by the WUN-funded project, Widening Participation: "First in the Family" Students Succeeding in Universities.

"Our research is one of the few international studies on first-generation students – so we're breaking new ground," said Dr Bell. "Yet, there is still much to be done to transform the academy to better serve these students and foster their equity."

Researchers from Aotearoa New Zealand, Australia, South Africa, Canada, the USA and the UK used culturally sustaining approaches to examine how first-generation students demonstrate resilience and articulate their success and challenges.

The book's final chapter also offers suggestions for moving beyond listening to taking action.

HIGHLIGHTS

- Writing chapters in partnership with research assistants who are also first-generation students – embodying the project's methodologies and helping a new generation of scholars navigate their journeys.
- New book *Understanding experiences of first generation university students: Culturally responsive and sustaining methodologies* published by Bloomsbury in February 2018, and launched at WUN Annual Conference in May 2018.

The topic of first-generation students in higher education is ripe for further exploration – and our book lays the groundwork.





NEW BOOK PROBES AFRICA'S COMPLEX SDG ISSUES

Authors from diverse disciplines ask: How do the UN Sustainable Development Goals (SDGs) connect or conflict with Africa's development agenda?

WUN's Global Africa Group (GAG) has secured a publishing contract for a pivotal new book in which 53 WUN co-authors (from a total 70 authors) explore themes pertinent to human development in 21st-century Africa.

Springer will publish *Africa and the Sustainable Development Goals*, co-edited by WUN GAG Co-Chairs Professor Maano Ramutsindela (University of Cape Town) and Dr David Mickler (University of Western Australia), in its Sustainable Development Goals Series. The book project aligns with GAG's Strategic Plan 2016–18 to develop collaborative research that intersects with the African Union's Agenda 2063, the UN 2030 Agenda for Sustainable Development, and existing WUN research interests and expertise.

Authors presented and refined their chapters at a workshop at the University of Cape Town on December 2, 2017. A WUN Sustainability Fund grant supported the workshop and production of the book, which is slated for release early 2019. Members of the Australia Africa Universities Network (AAUN) also contributed insights to the workshop, designed to inspire research collaboration and cross-pollinate diverse disciplinary perspectives.

"Producing a book of this breadth and depth in about 18 months shows the strength of networking in WUN and GAG," said Dr Mickler. "We're delighted to have achieved a terrific collection of chapters that meet our key co-authorship principles.

"This means we have at least one Africa-based co-author and at least one WUN-member-based co-author per chapter. We've also achieved a gender balance and included contributions by early career researchers and practitioners along with senior academics."

Professor Maano Ramutsindela said the book's scholarly interrogation of live issues would contribute to debates on SDGs in Africa and their implications for ordinary citizens. "It engages the intersections and tensions between the SDGs and African and other development agendas, which is of vital importance."

HIGHLIGHTS

- Authors' workshop at the University of Cape Town, December 2, 2017
- New book *Africa and the Sustainable Development Goals* to be published in Springer's Sustainable Development Goals series in early 2019

“The book probes issues including biodiversity and wildlife crime, climate-affected non-communicable diseases, talent management challenges for women, and more”

WUN LAUNCHES GLOBAL POLICY RESEARCH GROUP

WUN launched its new WUN Global Policy Research Group (WUN GPRG) in 2018: Stage 1 during the RUC-WUN Think Tank Conference in March and Stage 2 at the WUN AGM in May.

WUN's new GPRG brings a global research and policy perspective from 23 leading Universities on six continents to assist in decision-making based on the intellectual resources of some of the world's top universities. This innovative scholarly community seeks to contribute to an improved understanding of global issues and a more sustainable future for humankind.

The Belt and Road – green development was the theme of the RUC-WUN conference at Renmin University of China (RUC) in Beijing, March 23-24, jointly organized by the National Academy of Development and Strategy (NADS), RUC and WUN.

Nine leading WUN universities from five continents in the Americas, Europe, Africa, Asia, and Oceania sent representatives. Government and business leaders from China and other nations, as well as representatives from the United Nations, the World Bank, the World Health Organization and other intergovernmental organizations also took part.

Speaking at the opening ceremony, Prof LIU Wei, President of RUC and Dean of NADS, said he believed WUN GPRG would build a “knowledge exchange” into a “global knowledge cloud” that would make an impact on policy development, and provide sound advice on global governance and development.

In a congratulatory video, WUN's Chair, Professor Martin Paul (Maastricht University), said the “Belt and Road” Initiative would make an important contribution to solving global issues, but all universities should cultivate young talent to provide fresh solutions for global concerns.

Conference sessions explored issues relating to the “Belt and Road” Initiative including boosting information transparency relating to the green development and driving interdisciplinary and global cooperation to promote the resolution of environmental concerns.

HIGHLIGHTS

- Launch of WUN's new Global Policy Research Group (WUN GPRG) an innovative scholarly community, which aims to improve understanding of global issues and address challenges
- RUC-WUN Think Tank Conference explored issues relating to the “Belt and Road” Initiative – fostering understanding between participants and propelling scientific research
- WUN delegates held post-conference follow-up meetings in Perth to review outcomes and determine actions to be explored

“The “Belt and Road” Initiative should make an important contribution to solving global issues”





RESEARCH NETWORK WILL NURTURE HEALTHIER MUSICIANS

This visionary team is building a global research network to address the urgent need for more accessible health education for musicians.

Musicians suffer alarming rates of non-communicable diseases and are at high risk of developing multiple health issues. Despite this, little investigation has been done into how to embed health education into music teaching practices or to develop global and regional education policies that mandate its provision.

This WUN-RDF funded project is addressing this deficit—building an international, interdisciplinary research network devoted to improving health education and health literacy for musicians.

“Making music involves highly repetitive actions under psychologically demanding conditions, and research indicates this poses a high injury risk for musicians,” said project PI and accomplished cellist Associate Professor Suzanne Wijsman (UWA). “Yet most musicians are not educated during their training to make informed decisions about their health.

“Research that focuses on how health promotion, healthy practice and injury prevention principles can be translated into teaching practice in tertiary settings is urgently required.”

The World Health Organisation (WHO) Shanghai Declaration (2016) has identified embedding health education within core teaching curricula as a key factor in determining public health outcomes.

Team members involved in the project have substantial track records in health education and research for musicians, and hail from WUN Universities Alberta, Auckland, UWA, Sydney, Maastricht and Cape Town, and from Lethbridge in Canada (not a WUN member).

A key goal is to explore how an online musicians' health course, originally developed at the two Australian WUN universities, can be tailored for different audiences and educational contexts. “The poor health literacy of musicians is a widespread public health problem that starts in early childhood,” Dr Wijsman said. “Our project will be pivotal in helping to improve health outcomes over musicians' lifespans.”

HIGHLIGHTS

- Two team workshops at WUN universities (UWA and Maastricht) in 2018 to harness regional perspectives
- Exploring the potential benefits of delivering musicians' health education online to provide accessibility and mobility in different contexts
- Submission of collaborative grant applications to extend project funding for up to five years to achieve maximum global impact

“Our project will be pivotal in helping to improve health outcomes for musicians over their lifespans”

CoLA'S CONTRIBUTING TO CAPACITY DEVELOPMENT

There is a clear need for capacity development in higher education in Africa, and CoLA is designed to help fill the breach.

Sub-Saharan Africa is lagging behind the rest of the world in the provision of higher education for doctoral students – the research and educational project Community of Learning for Africa (CoLA) aims to help address this.

“CoLA focuses on Africa because the needs of certain countries on the continent are simply the highest,” said Dr Mindel van de Laar from Maastricht University’s Graduate School of Governance MGSOG (UM) / UNU-MERIT. “After conducting a needs assessment, we discovered that a majority of African doctoral students need assistance in all steps of the research cycle: from how to set up a proposal, to conducting a literature review, designing the methodology, finding data and how to analyse it properly.”

CoLA is an online learning network developed by MGSOG (UM) / UNU-MERIT. It offers training modules and research support through a flexible eLearning platform to increase access to resources for PhD students working on their dissertations through African universities.

A WUN grant funded CoLA's pilot phase in 2015-2016. WUN member universities Cape Town, Ghana, and Alberta also collaborate with UM and UNU-MERIT to supply content and build CoLA's network.

CoLA's team tested the platform at WUN's Annual Conference held in Maastricht in April 2016 – gathering feedback about course material and checking with

African universities that its online features would be of benefit. Based on this test, the platform is being updated and content added.

In a journal article published in *Transformation in higher education* in July 2017, Dr van de Laar said there was more work to be done to determine CoLA's impact.

“Learning analytics about the actual use of the services, course completion rates, and paper publication data must be collected over a longer period in order to assess true impact. But more important now is the sustainability of the platform. We look for structural African and global collaboration to ensure continuous content offering and supervision support, as well as funding to enable us to run the project.”

HIGHLIGHTS

- “‘Community of Learning’ for African PhD students: Changing the scene of doctoral education?” published in *Transformation in higher education*, July 2017

“CoLA focuses on Africa because the needs of certain countries on the continent are simply the highest”





WUN GLOBAL CHINA GROUP

Initiated in late 2013 and arising from existing research programs throughout the network, WUN's Global China Group brings the expertise of 23 universities from 13 countries and six continents and seeks to build a greater two-way understanding of China. The group incorporates WUN's research strengths across Chinese economy, society, social policy, politics, history, anthropology, literature and other cultural aspects, while developing strong links with government, NGOs, industry and leading external academic partners. The group also endeavours to respond to the four Global Challenges as identified by WUN. This group has made significant progress in the past years. Its research and education platforms have been strengthened with new members from Greater China and around the world.

WUN GLOBAL AFRICA GROUP

The WUN Global Africa Group (GAG) held its formal launch workshop at the University of Ghana in June 2017. A WUN delegation subsequently visited the University of Nairobi (UoN) to welcome UoN into the WUN network and to GAG and to discuss priority research and development themes. A book contract with Springer for the edited volume *Africa and the Sustainable Development Goals*, which features a range of co-contributions from across WUN (see page 30 for more details). A book workshop was held at the University of Cape Town in December 2017. GAG has also been supporting the three successful Africa-related RDF grant projects in the 2017–18 round. In 2018, GAG is convening a public forum on Africa and Sustainable Development Agendas (May 25, Perth) and its annual research workshop at the University of Nairobi (late October).





WUN GLOBAL POLICY RESEARCH GROUP

The group brings together the policy related research centres and programs from across the 23 members of WUN on six continents, to encourage a global approach, perspective and understanding. Each of the WUN Global Challenges has important policy dimensions to which WUN research programs can bring evidence. The WUN China Group, Africa Group and disciplinary groups in Economics and Data Science are enabling support groups that also help WUN in strengthening its research and impact. This is an excellent time of opportunity for WUN to engage with the major global policy frameworks, including the SDGs, Paris Climate Accords, Belt and Road Initiative and regional policies developing for Europe with BREXIT, Africa, the Indo Pacific and elsewhere.

WUN ENABLING SUPPORT GROUPS BUILD SYNERGIES

The three groups (Global China Group, Global Africa Group and the new Global Policy Research Group) held working dinners on 21 May to establish future directions and to strengthen the four WUN Global Challenge Groups; and then joined in plenary session to build mutual cooperation. The Global China Group identified integration of new members, including Tec de Monterrey and UC Dublin; along with clear representation of all members on the steering group, and engagement with the policy group. The Global Africa Group emphasized close work with the four Global Challenge Groups, facilitation of all WUN members in two-way linkages with African members, development of Africa policy briefings with the Policy Group, and development of a fund raising strategy 2019–21. The Global Policy Research Group will carry out a further mapping study to engage more WUN members, identify the priority policy gaps with the global Challenge Groups, and will form a charter or constitution with the value proposition and governance of the group.

SUSTAINABLE SUCCESS STORIES

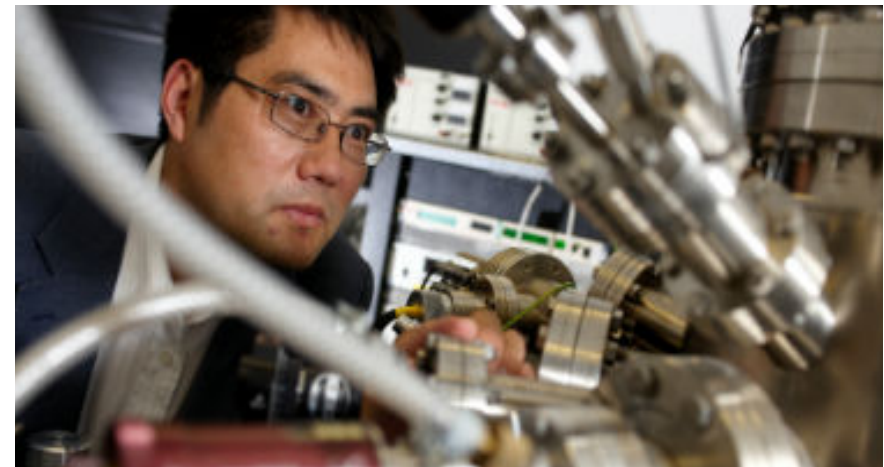
Imagine a stone dropped into a pool and seeing its ripple effect: That's what WUN's most successful collaborations are like. A project seed-funded by a WUN Research and Development Fund (RDF) grant attracts further funding and critical partnerships. An established project receives a Sustainability Fund Grant and a long-term collaboration begins to flourish. With strong leadership, a committed team, high quality research and persistence in applying for funds, the team's impact deepens and extends outwards to address significant global challenges.

A prime example of sustainable success is WUN's cooperative effort with WHO – which for several years has largely focused on incorporating a life-course component into WHO's non-communicable diseases (NCD) prevention strategy. Valuable insights from a WHO-WUN technical meeting, in June 2017, feature in a new WHO series on Metrics, Research and Knowledge Translation for Healthy Ageing to be published in 2018. In 2017, WUN and WHO jointly published a white paper on The Importance of a Life course approach to health: Chronic disease risk from preconception through adolescence and adulthood. A two-day meeting in Western Australia, in May 2018, organized by WUN's Steering Group for Public Health and the Resilience Working Group, was also significant. "The clear strategic outcome from our technical meeting in Perth will aid the dissemination and testing of the concept of intrinsic capacity between 2017 and 2020," said PI Professor Mark Hanson (Southampton). "It will also assist us as we develop a research plan targeted to feed results into the WHO decade of Healthy Ageing 2020–2030."

WUN's Spintronics Consortium combines the expertise of more than 30 partners

including nine WUN universities.

Since 2007, WUN-SPIN has held conferences across the globe. Recent consortium highlights include: Plans by York and Leeds universities to establish an Engineering and Physical Research Council – Centre for Doctoral Training in Spintronics; a WUN Spintronics Materials and Technology symposium at the 4th International Conference of Advances in Functional Materials in Ningjiing City, China, in August in 2018; and reciprocal visits by PhD students and professors from York and Nanjing universities to advance research. Key consortium partner York University secured £20,000 sponsorship via the York-Nanjing Joint Center for a paper titled "Development of high frequency PCB materials for 5G" and its researchers had 30 publications appear in journals in 2017. "The MagMRAM industry (one of the spintronics-based memory technologies) is also starting to take off," said PI Dr Yongbing Xu (York), "and we are seeking collaborations with global partners in this important area".



GREEN SHOOTS: SELECTED EMERGING PROGRAMS

It's exciting to see "green shoots" flourish – and WUN has a number of new collaborations expected to bear fruit in coming years. Here's a selection to keep your eye on. For the full list of active research groups, see page 50.

TRADITIONAL REMEDIES

The neglected tropical diseases (NTDs) are endemic in Africa, with debilitating consequences for the poor, particularly women and children. Regardless of global efforts to combat the NTDs, they remain a public health concern in sub-Saharan Africa. This research takes up the challenge of providing interventions through identification of traditional remedies for value chain addition and subsequent recommendation to Pharma for medicine development. Dr Dorcas Osei-Safo (PI) says, "While Africa bears a huge disease burden, her rich biodiversity resource and indigenous knowledge systems remain largely unexplored for new treatments. Our experienced, multidisciplinary research team will contribute to bridging this gap."



IRONING OUT HEALTH INEQUITIES

Different levels of economic development across China and different health insurance schemes have led to the unequal distribution of health services and investments for older people. This has resulted in health inequities, especially regarding trajectories of non-communicable diseases. Dr Zhixin Feng (PI) says, "Since 2011, China has ensured nearly 100 per cent of its older people are covered by health insurance – but this does not mean there is 100 per cent efficient provision or equal distribution of health spending. Our research team aims to feed into policy implications for future health care reform under the National Strategy 'Healthy China 2030'."



GREEN BELT AND ROAD DEVELOPMENT

The fundamental relevance of this research is to elaborate the concept and implications of the green Belt and Road (B&R) from a global perspective. Taking economic, environmental and technological dimensions, it constructs a comprehensive index system to quantify each country's green development status and to determine key sectors and technologies in most urgent need. When compared with China's experience and initiatives, priorities for future cooperation are identified. Multicultural policy dialogues and real-world case studies will contribute to the project, and the team is keen to receive useful input from other WUN members.



WHAT'S WARMING DOING TO FISH?

This project will mount a three-day symposium to explore the impact of ocean warming and acidification on marine fish development, and to estimate the ecological and economical costs on wild fish populations (fisheries) and marine fish farming (aquaculture). "With global sea surface temperatures predicted to rise by 3.1°C by 2100 and the corresponding increases in ocean acidity, more research about their effect on gill health and function is urgently needed," said PI Associate Professor Joy Becker (Sydney). "Our ultimate goal is to create an open environment to support an international and interdisciplinary comparative research and training program to support this initiative."



MARRIAGE MIGRANTS IN ASIA

The goal of this project is to ameliorate public misconceptions about marriage migrants in Asia and to offer a more holistic understanding of their circumstances. PI Professor Su-Lin Yu (pictured/NCKU) and her team (Hong Kong, Western Australia, Japan) will write a book and conduct talks based on their findings to aid policy makers, effect social change and broaden discussions about gender-related research. They will focus on marriage migrant women's agency and mobility in the receiving society. This project will extend and deepen scholarly enquiry into the consequences of globalisation for marriage migrants from different national and disciplinary perspectives to achieve a more thorough and cross-culturally nuanced understanding of marriage and migration in Asia.



INNOVATIVE STUDY OF ELDERLY CARE

This project will study elderly care through the lens of social innovation. WUN partners (Auckland, Bergen, Bristol, Leeds, Sheffield, Sydney, and Zhejiang) plan to collect case studies of aged care across cultures and societies – identifying their merits and making policy recommendations accordingly. A PhD researcher exchange scheme, workshops and academic papers will also feature. PI Ka Lin (Zhejiang University) said, "Innovative practices in elderly care are at risk of disappearing without the value of their innovation being assessed. We plan to assess them. With the ultimate aim of protecting older people's rights and improving their welfare and wellbeing."





RESEARCH INVESTMENTS

WUN invests in meaningful research that makes a difference to the world, focusing on the four Global Challenges, and the United Nations Sustainable Development Goals.

Over the last eight years WUN's Research Development Fund (RDF) has invested more than £1.7 million across 154 research programs. This is in addition to the £60,000 it invests each year through our Global Challenge Steering Group Fund and further investments in mature research programs via the WUN Sustainability Fund.

We aim to sponsor interdisciplinary, international teams doing groundbreaking work that could not be undertaken by a single university working alone. In 2017-18, we directly invested £256,955 into research through our three funding programmes.

The results of the 2017 round of the annual Research Development Fund, led to a direct investment in international, interdisciplinary research collaboration among WUN member universities of over £130,000.

A total of 14 projects, building capacity and communities of scholars, were awarded seed funding to begin in early 2018, joining the 88 existing collaborative research programs engaging over 2,300 researchers and students in the Network.

As WUN's keystone scheme, the RDF provides competitive seed grants to establish global research projects, which can then approach national and international bodies for further funds. Energy investment and environmental protection, and fostering innovative care for older people were two significant themes across the projects supported by the RDF in this round.

The Sustainability Fund is a supplementary grant aimed at programmes that have already demonstrated success and are ready to attract significant external funding from government, NGOs, international agencies, foundations and industry.

WUN's Global Challenge Steering Group Fund is another source of financial support for our four over-arching research programmes. Every year, the four Global Challenge groups can access up to £15,000 each to boost the impact of their research and policy; for example, by assisting in engagement opportunities with the Institute of Migration (IOM), WHO and UNFCCC.

In 2017-18, we directly invested £256,955 into research that makes a difference to the world



RESEARCH MOBILITY

We're expanding the horizons of our network's best and brightest researchers.

WUN's Research Mobility Programme (RMP) offers early career researchers, PhD students, and research staff vital opportunities to visit our partner institutions to cultivate research links. It also helps emerging scholars to build the skills and networks to launch successful careers in a competitive global marketplace.

Participants are drawn from WUN member universities and spend up to three months at a WUN partner university. Our member universities deliver the scheme and make funds available for travel and subsistence or integrate it into an existing research programme.

Vivian Kong, a PhD candidate in Bristol under the Hong Kong History Project who visited Sydney University's Faculty of History in July/August, 2017, is one of 80 researchers who benefitted from the scheme last year.

She gleaned insights from Dr Sophie Loy-Wilson, whose work on Australian communities in Shanghai is highly relevant to Ms Kong's research exploring notions of Britishness in interwar Hong Kong. Ms Kong also accessed Australian archives and interviewed former residents of Hong Kong – both crucial to the completion of her thesis. WUN RMP funding allowed her



to attract additional funding from the AHA-Copyright Agency Travel and Publication Bursaries to attend the Australian Historical Association annual conference.

"The RMP gave me an invaluable opportunity to gain intellectual perspectives from scholars of different research cultures and to build networks," she said. "I'm genuinely grateful for this support."

Synergies between Plinio Zanini's research in the field of dielectric elastomer generator technology and research taking place in the Auckland Bioengineering Institute made his three-month RMP visit to Auckland in 2017 extremely productive.

Mr Zanini (far right) is a PhD candidate in Bristol's Department of Engineering Mathematics, and part of the Bristol Soft Robotics Group.

"The RMP gave me direct contact with different experimental setups and collaborative work at an international level, which has assisted me in preparing fellowship applications to extend the themes of my WUN-funded research," he said.

"I'm also excited about plans for longer-term interdisciplinary collaboration between Bristol Robotics Laboratory and the Auckland Bioengineering Institute to develop new, wearable energy harvesting devices."

In 2017, 45 staff and 35 students across nine WUN members took part in the RMP.



SELECTION OF CONFERENCES, EVENTS AND STRATEGIC WORKSHOPS

WUN hosts conferences, workshops, virtual seminars and many other events to bring our community of researchers together to share ideas and spark collaboration. These often involve other universities, academic societies, NGOs and governments to ensure our research makes an impact. This is a sample of the diverse range of events held across our network.

WORKSHOP SERIES ON THE ASSESSMENT AND INTERVENTION TECHNOLOGIES FOR THE MOVEMENT ABILITY OF OLDER ADULTS

First workshop March 27-28, 2017 Zhejiang / Second workshop June 12-13, 2017, Alberta / Third workshop December 18-19, 2017, Hong Kong

Researchers from the University of Alberta partnered with Zhejiang University and the Chinese University of Hong Kong through three workshops to identify common issues, share knowledge and leverage intervention technologies for movement in older adults.

AIR SENSORS EVERYWHERE

April 19, 2017, Ghana

Launched in 2016, the Air Sensors Everywhere project seeks to bring in a diverse and interdisciplinary group of partners to discuss the limitations, and opportunities, of these technologies. The workshop offered platform presentations, tutorials for students and collaborative field research exercises.

LEGUME R&D SUMMIT/SYMPOSIUM

June 8-17, 2017, Hong Kong

The Chinese University of Hong Kong hosted more than 100 participants from six continents to share research and development ideas relating to legumes in developing countries, with the aim of building a global collaborative network.

N8 AGRIFOOD INTERNATIONAL CONFERENCE

July 11-13, 2017, Durham

Professor Christine Foyer (Leeds) organised the Nutrition Stream on "Food Production for the Future" at this conference and invited WUN CROP-FS team members to present to the international audience of 200 participants. Presenters included Professors Om Parkash (UMass) and Dr Michael Considine (UWA).

RISKS FOR ASTHMA AND ALLERGIES ACROSS GENERATIONS

7th annual RHINESSA conference/ALEC WP2

May 31- June 2, 2017, Bergen

Around 40 academics from across WUN and the Advisory Board attended and presented analyses relating to RHINESSA research into lung health throughout the lifespan and across generations. RHINESSA refers to Respiratory Health In Northern Europe, Spain and Australia.

LIVESTOCK SUSTAINABILITY AND GLOBAL CHALLENGES WORKSHOP

September 18-20, 2017, Bristol

Delegates reviewed current developments in sustainable livestock production, the progress of the Global Farm Platform (which began its life as a WUN initiative), and the new ways governments and non-governmental organisations were addressing related global challenges.

WIDENING ACCESS TO THE PROFESSIONS: EXPERIENCE FROM MEDICAL SELECTION

February 13-14, 2017, York (DREAMS Workshop Series)

Nineteen attendees from network universities, non-network universities, policy institutions and the UN met to clarify the lessons learned from several decades of experience in attempting to widen access to under-represented groups in medicine. This included discussion on understanding how widening access may be conceptualised and implemented within a global context.

HIDDEN VOICES: EXPLORING THE HEALTH EXPERIENCES OF CHILDREN WHO MIGRATE

September 11-13, 2017, Sheffield

This WUN child-migrant health workshop brought together 15 academics and five NGO guests for presentation of academic papers, and network and research development.

SITUATIONAL JUDGEMENT TESTS BEST PRACTICE PROGRAM

July 24-25, 2017, Sydney (DREAMS Workshop Series)

This workshop hosted by The University of Sydney focused on designing situational judgment tests to widen access to the profession of medicine. It involved visiting academics from the UK, South Africa, the United Nations, and speakers from the University of Sydney and Monash University, as well as 38 participants from Australian and NZ medical and dental schools, medical colleges and other educational institutions.

THE ECONOMICS OF WORKFORCE SELECTION

December 4-5, 2017, York (DREAMS Workshop Series)

International experts and researchers shared presentations and open-ended discussion to extend and develop new approaches to understanding the selection of individuals into professions.

ECOSYSTEM-ATMOSPHERE INTERACTIONS IN AIR QUALITY AND CLIMATE ASSESSMENT: MODELLING & MEASUREMENT STRATEGIES

June 19-20, 2017, Hong Kong

This workshop was organized as part of the RDF 2015 "Impacts of Future Climate and Land Use Changes on Public Health and Food Security in Sub-Saharan Africa and Southeast Asia", led by Professor Amos Tai. More than 50 international participants heard five speakers — two from WUN — who presented on the frontiers of atmosphere-biosphere modelling.

MIGRATION DATA FOR POLICY SUMMER SCHOOL

July 9-12, 2018, Bristol

This Summer School on Migration Data for Policy was the first migration focused training dedicated to improving the quality, analysis and use of migration data for policy. The program brought together data experts, statisticians and officials, working closely with UNSD and UNPD, to provide dedicated training, education and knowledge exchange.

CROP-FS CLIMATE RESILIENT CROPS (3RD WORKSHOP)

October 6-8, 2017, Amherst

CROP-FS, sponsored by WUN, is building a consortium of international researchers across a range of disciplines, with the goal of developing sustainable and climate-resilient crop systems to increase yield, thus improving global food security and safety. Participants represented 14 universities and institutes from six continents.

HERITAGE FORTS AND CASTLES AND COASTAL CULTURES WORKSHOP

December 1-5, 2017, Accra

This workshop aimed to initiate a comprehensive multi-year multi-disciplinary study of the Elmina Castle, and other UNESCO World Heritage Sites found along the coast of Ghana. A long-term goal is to include the creation of a state-of-the art digital environment for multidisciplinary study, virtual visualization, and material conservation of the castles and forts.

TRANSFORMING LIFE: UNIFYING PERSONAL, PUBLIC AND PLANETARY HEALTH

April 4-6, 2018, Canada

The 7th annual workshop of inVIVO (previously In-FLAME) aimed to define and modify the impact of rapid global environmental change, urbanization, and biodiversity losses on immune health – which is fundamental to all aspects of health.

WUN RESILIENCE YOUTH AND SERVICE PROVIDERS WORKING GROUPS WORKSHOP

17-18 June 2017, Cape Town

WUN Resilience Workshop @ Goedgedacht Farm led by PI Prof Steve Reid. Re-identifying key commonalities between the projects with a view to expanding collaborations and producing joint publications was part of the program.

MIGRATION POLICY AND QUALITY OF LIFE

April 20-22, 2018, Hong Kong

This follow-up workshop at CUHK examined the migration policy, welfare boundary, social integration and health-related quality of life of children from immigrant families.

PERFORMING ARTS MEDICINE ASSOCIATION ANNUAL SYMPOSIUM

June 30 - July 3, 2018, UWA

An international interdisciplinary educational initiative to enhance health literacy in music students presented by Bronwen Ackermann (Sydney).

UNDERSTANDING CULTURES ACADEMIC WORKSHOP

Cultures in flux: Migration and cultural dynamics in the past and present

Participants in the Understanding Cultures workshop were surprised to hear from Noongar elder, Professor Len Collard (UWA), that the popular Perth tourist spot of Rottnest Island has a tragic history as a prison for Indigenous men; is the largest deaths in custody site in Australia; and is also the largest known burial ground of Aboriginal people.

The Rottnest Island visit was part of the three-day Cultures in flux: Migration and cultural dynamics in the past and present workshop held in Perth from May 20-22. Sessions focused on maritime migration, the Mesolithic rock art of Scandinavia, mobile cultures and the discourse of displacement, comparing Nigerian and Eritrean migrants' experiences in coming to Italy across the Mediterranean, and more.

Participants also charted an action plan, which supports research into the establishment and preservation of burial sites and memorials to people lost in migration and holding the group's next academic workshop in Africa.

Chair of the group, Associate Professor Tore Saetersdal (UiB), said, "Migration is a key issue across all WUN's groups, and cultural and heritage issues inevitably come up when we try to measure how far we have gone towards achieving the SDGs.

"We see great potential in WUN members forming multidisciplinary research groups to look at heritage and migration from different angles – and using data and research from their home institutions."

*See pages 23 and 27 for more information about Understanding Cultures

We see great value in multidisciplinary research that looks at heritage and migration from different angles



PUBLIC HEALTH ACADEMIC WORKSHOP

Promoting adaptability across the life course

WUN's Public Health workshop at the University of Western Australia on May 21-22 focused on promoting adaptability through the life course using a multi-disciplinary approach. Jointly organised by WUN's Steering Group for Public Health and the Resilience Working Group, the workshop examined on-going research at WUN universities, encouraged participation from early career researchers, and created opportunities for future collaborations.

Dr Chandni Maria Jacob (Southampton) said, "Our rich and productive discussions considered factors in critical life stages influencing long-term health and their measures, ways to support developing and sustaining resilience across the life course, and concepts related to healthy ageing."

The Australian context gave Professor Leon Flicker (UWA) a chance to offer insights into Aboriginal health. He said there was still a 10-year "gap" in life expectancies between Aboriginal and non-Aboriginal Australians. "There is also now reasonable evidence that Aboriginal people are experiencing some of the problems of old age like dementia at younger ages than non-Aboriginal people."

Ms Sophia Lorraine-Allie (UCT) was one of five early career researchers funded by the University of Southampton to attend and present research at the workshop. She said it had been a wonderful learning opportunity, which enabled her to link three UCT researchers from her department (the Department of Health and Rehabilitation Sciences) with with Professor Hayley Christian (UWA) to explore collaboration.

Professor Ngaire Kerse (Auckland), Chair of WUN's Public Health Steering Group, said the relationship of built environments and green developments to health, and a major health care reform project in China (Renmin) offered scope for more research.

WUN is exploring ways to sustain resilience throughout the life course



WUN CONFERENCE AND AGM 2018

Over 150 researchers and leaders from the 23 WUN member universities met with WUN partners and external specialists and policymakers for WUN's Annual Conference, AGM and Presidents Forum.

Held at the University of Western Australia (UWA) in Perth, the six-day convention (20-25 May 2018) celebrated research efforts towards achieving the United Nations Sustainable Development Goals (SDGs) and determined next steps in tackling these and other global issues.

In speeches and presentations, WUN paid tribute to its Executive Director, Professor John Hearn (Sydney University), as he moves on to new ventures after nine years at the helm. The network also announced its next Executive Director, Professor Peter Lennie, who will commence in his new role on August 1, 2018.



Several productive academic workshops were connected to this year's governance meetings. They addressed heritage and migration, public health and resilience, the water-food-energy nexus as it relates to climate change, and higher education and research.

Reports presented during the Annual General Meeting highlighted network achievements that aligned with WUN's Strategic Plan 2018–2020. They also identified areas for development such as Summer schools, internships and other research-based exchanges to involve undergraduates, PhD students, and early career researchers in the network.

Expert input offered during WUN's eighth Presidents Forum was targeted to assist the network as it pioneers a model for interdisciplinary knowledge leadership that prioritizes local and global policy impact. WUN launched its Global Policy Research Group (GPRG) in March in Renmin, China. The Presidents Forum was the second phase of the GPRG's launch and pivotal in shaping how the group will drive WUN's engagement with major global policy frameworks – including the SDGs, Paris Climate Accords, Belt and Road Initiative and regional policies developing for Europe with BREXIT, Africa, and the Indo Pacific.

A public panel discussion about Africa and Sustainable Development Agendas concluded WUN's conference. The event was a joint initiative of the UWA Africa Research Cluster, WUN's Global Africa Group and the Organisation of African Communities in Western Australia.

Professor Hearn praised all who contribute to WUN's programs and governance groups for their enthusiasm and goodwill. "After 12 years with WUN and nine as its Executive Director, I am proud to be leaving the network in such good heart, good shape and moving into good hands."

*A tribute to John Hearn, a Q&A with Peter Lennie, and stories from the Presidents Forum and academic workshops are available on WUN's website.



PARTNER WITH US

Agencies, policymakers and philanthropic organisations WUN partners with a wide range of international agencies and organisations including the UN, OECD, WHO and World Bank Institute in order to deliver sustainable solutions to global challenges. By partnering with us, your organisation can harness the resources of 23 leading universities in 13 countries across 6 continents through one channel. Together, we can define a truly global research agenda that makes an impact on scientific discovery, policy frameworks and communities around the world.

RESEARCHERS AT WUN UNIVERSITIES

Each year, WUN researchers come together in new and exciting international collaborations across our four Global Challenge themes. If you are a researcher at a WUN institution—whether early in your career or established in your field—and you wish to start a new project or find out more about existing collaborations, contact your local WUN Coordinator.

RESEARCHERS OUTSIDE WUN

WUN works closely with experts from several other universities around the world, as well as the private sector, in order to expand our intellectual reach and ensure the very best minds contribute to our research. These external partners, known as WUN Plus (WUN+) partners, make an important contribution to joint projects and are appropriately named on funding programmes and publications. However, WUN+ partners do not qualify for direct funding from WUN.

UNIVERSITIES WISHING TO JOIN WUN

WUN is a network of peer universities from around the world. If you are a research-intensive university with a global reputation, a vision for international excellence and strengths in our priority research areas, we are interested in hearing from you. The first step towards membership is a willingness to participate and invest in WUN. All new members are approved by the WUN Partnership Board.

WUN PARTNER OPERATIONS

Each WUN member chooses their own model of implementation and operation for WUN. However, we have studied the criteria for successful engagement and they include:

- The President of the university acting as champion for the network, engaging with the Partnership Board, advising on strategy and resource development, and attending the annual conference and AGM. A senior university officer, preferably a Vice President, with the responsibility for research or internationalisation of a research strategy.
- A full or part-time Coordinator to manage the programme and projects of WUN within the university and to act as an intermediary between the network and the university community. The Coordinator works with academics to develop initiatives, follow up on programmes, track achievements and communicate academic and funding opportunities.
- A modest sum set aside by each member university to support collaboration among members.

CONTACT US

For more information about WUN, please contact us:

Executive Director:

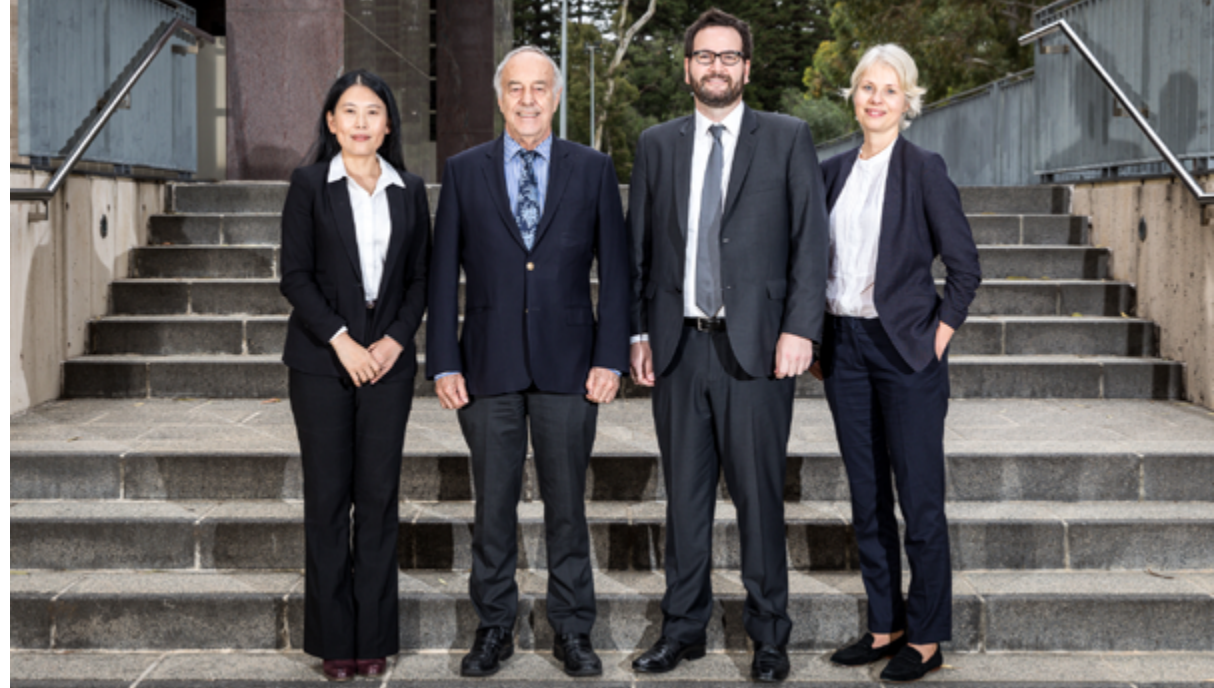
Professor John Hearn
jhearn@wun.ac.uk

General Manager

Dr Mike Hasenmueller
mhasenmueller@wun.ac.uk

WUN CONFERENCE AND AGM 2019

The next WUN Conference and AGM will be held in Dublin, Ireland, from May 19-24, 2018. Save the date! WUN members will gather next year in the land of a hundred thousand welcomes (Céad míle fáilte), associated with University College Dublin (UCD), for the WUN Conference and AGM. Participants will revel in Dublin's literary treasures (including The Book of Kells), archaeology (including the bog bodies), parks that glow like shamrocks, harps that sound like angels, and Guinness that tastes that much better because it's served in its home town. UCD is excited at the prospect of hosting the meeting, and is pulling out all stops to make our multi-purpose event (that incorporates the Presidents Forum as well as a range of academic workshops and forums organised by WUN's global challenge collaborations and project teams) is unforgettable. We invite you to block out these six days in your diary now so you can come and enjoy some excellent Irish hospitality in the emerald isle next year.



EXECUTIVE DIRECTOR PROFESSOR JOHN HEARN TAKES LEAVE OF WUN

Dear Colleagues,

Thank you for the privilege of serving as your Executive Director over the past nine years. Together, we have built a global team, with major capacities and strengths, addressing challenges of our times. These are turbulent times, with threats to international knowledge partnerships, education diplomacy, and opportunities for emerging and established educators and researchers. We find the focus, energy and resources to succeed. I thank individually all who serve with WUN. I thank the seven Chairs of the Partnership Board I have worked with over the past nine years, and all who have engaged in our steering groups and research programs. We are a volunteer force, a laboratory for internationalization, and a source of innovation. I thank especially our outstanding secretariat, currently Dr Mike Hasenmueller, Associate Professor Grace Liu and Marije Nieuwenhuis, with Helena Smith and colleagues in Leeds, and the Coordinators who make WUN work. I thank Nick Haskins and Sheelagh Douglas, each of whom worked with me for ten years. Onwards..

John Hearn



GOVERNANCE TEAMS

As a non-profit organisation responsible to its members and partners, WUN has robust governance procedures in place to ensure it operates prudently and efficiently while delivering high-quality programmes that make a real impact.

Overall administration of the network is the job of the Secretariat, which handles day-to-day operations, communications, and strategy implementation. It is led by the Executive Director, Professor John Hearn, and the General Manager, Dr Mike Hasenmuller.

Governance of WUN is divided among three separate bodies made up of representatives from each WUN university. The Partnership Board is responsible for setting the policy of the network; it consists of the various Presidents, Vice-Chancellors or Rectors of our universities. The Academic Advisory Group (AAG) oversees the network's academic portfolio and advises the Partnership Board on strategy; it consists of senior administrators, often Vice Presidents or Deputy Vice-Chancellors with responsibility for research or internationalisation. The Coordinators Group implements WUN strategies and programmes on campuses and shares information on collaborative opportunities. Each coordinator is the local point of contact for WUN programmes.

Finally, WUN's Global Challenges are guided by four Steering Groups made up of representatives of the WUN Partnership Board, the AAG and the Coordinators Group in addition to a panel of research experts drawn from the relevant field. The Chairs of the Global Challenge Steering Groups represent the Global Challenges in the WUN Academic Advisory Group.

WUN STEERING GROUP CHAIRS

GLOBAL CHALLENGE	NAME & MEMBER UNIVERSITY
Responding to Climate Change	Professor Peter G. R. Smith (Chair) The University of Southampton Professor Peter Davies (Vice Chair) The University of Western Australia
Global Higher Education and Research	Professor Caroline Dyer The University of Leeds
Public Health (Non-communicable Disease)	Professor Ngaire Kerse (Chair) The University of Auckland Professor Mark Hanson (Vice Chair) The University of Southampton
Understanding Cultures	Professor Tore Sætersdal (Chair) The University of Bergen Ms Ann Singleton (Vice Chair) The University of Bristol

WUN SECRETARIAT

ROLE	NAME
Executive Director	Professor John Hearn
General Manager	Dr Mike Hasenmuller
Program Manager (China)	Associate Professor Grace Liu PhD
Program Officer	Ms Marije Nieuwenhuis
Company Secretary	Ms Helena Smith

WUN UNIVERSITY REPRESENTATIVES

UNIVERSITY	PARTNERSHIP BOARD MEMBER	ACADEMIC ADVISORY GROUP MEMBER	COORDINATOR
The University of Alberta, Canada	Dr David Turpin	Ms Britta Baron	Dr Stefan Scherer (Chair)
The University of Auckland, New Zealand	Professor Stuart McCutcheon	Professor Jim Metson	Ms Deborah McAllister
The University of Bergen, Norway	Professor Dag Rune Olsen	Professor Annelin Eriksen	Mr Bjorn Erik Andersen
The University of Bristol, United Kingdom	Professor Hugh Brady	Professor Nishan Canagarajah	Dr Susan Jim
The University of Cape Town, South Africa	Dr Max Price	Professor Mamokgethi Phakeng	Ms Wilna Venter
University College Dublin	Professor Andrew Deeks	Professor Dolores O'Riordan	TBC
The Chinese University of Hong Kong, China	Professor Rocky S. Tuan	Professor Fanny Cheung	Ms Shally Fan
The University of Ghana, Ghana	Professor Ebenezer Oduro Owusu	Professor Francis Dodoo	Professor Andrew Anthony Adjei
The University of Leeds, United Kingdom	Sir Alan Langlands	Professor Lisa Roberts	Ms Anna Lewandowska
The University of Nairobi	Professor Peter Mbithi Vice-Chancellor	Professor Lucy Irungu	Professor Madara Ogot
National Cheng Kung University	Professor Huey-Jen Jenny Su	Professor Tung-yang Chen	Dr Joy Lin
Maastricht University, The Netherlands	Professor Dr Martin Paul (Chair)	Professor Tom van Veen	Ms Aisling Tiernan
The University of Massachusetts Amherst, USA	Professor Katherine Newman	Associate Professor Martina Nieswandt	Dr Loren Walker
Renmin University of China, China	Professor Liu Wei	Professor Wang Liming	Ms Wu Jin; Ms He Xujiao
The University of Rochester, USA	Professor Robert Clark	Dr Jane Gatewood	Mrs Ruth Levenkron
The University of Sheffield, United Kingdom	Sir Keith Burnett	Professor Dave Petley	Ms Danielle Bertrand
The University of Southampton, United Kingdom	Professor Sir Christopher Snowden	Professor Peter Smith	Ms Eleonora Gandolfi
The University of Sydney, Australia	Dr Michael Spence	Professor Kathy Belov	Ms Rebecca Whitcomb
Tecnológico de Monterrey, Mexico	Dr David Garza	Dr José Manuel Páez	Dr Miguel Angel Romero
Universidade Federal de Minas Gerais, Brazil	Professor Sandra Almeida	Professor Aziz Saliba	Mr Tiago Duarte
The University of Western Australia, Australia	Professor Dawn Freshwater	Professor Robyn Owens	Associate Professor Judith Bermen
The University of York, United Kingdom	Professor Koen Lamberts	Professor Deborah Smith	Mr Andrew Brown
Zhejiang University, China	Professor Wu Zhaohui	Professor Yonghua Song	Ms Minjie Tian

LIST OF WUN INTERDISCIPLINARY RESEARCH GROUPS

GLOBAL CHALLENGE KEY



Activity Name	Lead Academic	WUN PARTNERS																		
		ALB	AUK	BAS	BER	BRI	UCT	CHK	GHA	LEE	MAA	UMAS	REN	ROC	SHE	SOU	SYD	UWA	YRK	ZJU
Adopting REDD+ for Conservation, Sustainable Community Livelihood and Climate Change Mitigation	Associate Professor Lawal Marafa				Participant			Lead	Participant	Participant								Participant	Participant	
African Solutions to African Problems- Translating Indigenous Systems, Plants and Microbial Biodiversity into Drug Candidates for Neglected Tropical Diseases	Dorcas Osei-Safo					Participant	Participant		Lead									Participant	Participant	
Ancient Soils and Modern Land Use - a Challenge for Critical Zone Science	Assistant Professor Mattias Leopold		Participant				Participant								Participant		Participant	Lead		
Building sustainable mountain systems in sub-Saharan Africa: assessing the linkages between communities, ecosystem services, environment and health	Dr Robert Marchant			Participant			Participant		Participant										Lead	
Changing Coasts, Climate Change and Other Drivers	Professor Robert Nicholls		Participant			Participant	Participant										Lead	Participant		
Climate Change: Understanding Systemic Shocks in Integrated Infrastructures	Dr Nick Taylor Buck	Participant	Participant		Participant		Participant	Participant		Participant					Lead					
Climate Resilient Open Partnership for Food Security (CROP-FS)	Associate Professor Om Parkash									Participant		Lead				Participant			Participant	Participant
Critical Zone Observatories	Professor Steve Banwart					Participant				Participant					Lead			Participant		Participant
Developing Compatible Energy and Climate Strategies	Dr Håvard Haarstad				Lead			Participant		Participant					Participant					
Economics Cross-Cutting Theme	Professor Tom van Veen	Participant	Participant		Participant	Participant	Participant	Participant		Participant	Lead	Participant					Participant	Participant	Participant	Participant
Exchanging mobility for intensification modes of livestock production in African pastoral systems: trade-offs and challenges for pastoralists' climatechange adaptive capacity.	Professor Nikolaus Kuhn			Lead			Participant		Participant	Participant										
Facilitating international research collaboration between economists working on the integration of renewable generation into electricity markets	Assistant Professor David Brown	Lead	Participant															Participant		
Global Farm Platforms for Optimisation of Grazing Livestock Production Systems	Professor Mark Eisler	Participant				Lead				Participant							Participant	Participant		Participant
Health Education Access and Mobility for Musicians: A global approach	Suzanne Wijsman	Participant	Participant					Participant			Participant								Lead	
Health Promoting Responses to Climate Change	Associate Professor Ralph Maddison	Participant	Lead				Participant	Participant	Participant		Participant							Participant	Participant	
Impacts of future climate and land use changes on public health and food security in Sub-Saharan Africa and South East Asia	Assistant Professor Amos Tai						Participant	Lead		Participant					Participant					
Impact of ocean warming and acidification on marine fish production	Assistant Professor Joy Becker		Participant	Participant													Lead			
Indian Ocean Archaeology Network	Professor Alistair Paterson		Participant				Participant	Participant									Participant	Participant	Lead	Participant

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Legumes as the Hub of Diversification and Adaptation to Climate Change in Mediterranean Agriculture	Dr Michael Considine	█						█		█							█		█		█
Managing the Globalization of Water Services in a World Affected by Climate Change: Regulatory and Economic Challenges	Associate Professor Julien Chaisse							█		█	█						█				
New Insights into the Transmission of Angiostrongylus Lungworms by Gastropods Under Climate Change: A Comparative Approach	Dr Eric Morgan					█	█		█	█							█				
Non-market valuation of loss and damage under climate change	Professor Petra Tschakert		█			█	█		█	█							█				
Spatial Framework for Assessing Environmental Livelihood Security	Dr Eloise Biggs		█													█	█		█		
Stomata: Sensors of Climate Change	Professor Julie Gray					█									█		█		█		█
Transcultural Understanding of Designing with Climate Change: A Joint Design Research Studio Approach	Dr Chengzhi Peng						█	█							█						
Web Observatory	Dame Wendy Hall	█			█				█						█	█			█	█	
Wind or Solar? The Political Economy of Fuel Competition between Renewables	Professor Yuan Xu							█		█			█				█	█	█		
A study of the role of governing boards in African higher education institutions.	Dr Teerooven Soobaroyen					█	█		█							█					
Challenges of Access and Equity: the Higher Education Curriculum Answers Back	Dr Tai Peseta		█			█	█										█				
Community of Learning for African PhD fellows	Assistant Professor Dr Mindel Van de Laar	█					█		█		█										
Developing and Researching the Economics and Mathematics of Selection (DREAMS): Global Perspectives	Dr Paul Tiffin						█			█		█					█		█	█	█
Economics Cross-Cutting Theme	Professor Tom van Veen	█	█		█	█	█	█		█	█	█					█	█	█	█	█
Feasibility Study of Recommender Systems in Academia	Dr Evgueni Smirnov	█									█						█				
Health Education Access and Mobility for Musicians: A global approach	Associate Professor Suzanne Wijsman	█	█				█					█					█				█
Heritage Forts and Castles and Coastal Cultures of Ghana	Associate Professor Kodzo Gavua									█				█			█				
Ideas and Universities	Mr Ian Wei					█	█			█							█	█	█		█
Labor Market Outcomes Among Highly-Skilled Immigrants and Return Migrants: The Role of Place of Education	Associate Professor Yuying Tong	█	█					█									█				
Lab Trove	Professor Jeremy Frey															█	█				
Language Assessment Research Network	Professor He Lianzhen		█			█		█									█		█		█

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Mobility and Higher Education	Professor Tom van Veen																			
Open WUN	Professor Graeme Earl																			
"The Belt and Road" Green Development: International Culture, Climate Change, Energy Investment and Environmental Protection	Professor Qinhua Xu																			
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Widening Participation: 'First in Family' Students Succeeding in Universities	Dr 'Ema Wolfgramm-Foliaki, Associate Professor Airini, Dr Lorri Santamaria																			
The Worldwide Challenge of English	Professor Andrew Linn																			
World-class Universities, Publication and Research Assessment: Rethinking the Mission of Higher Education in the Global Age	Professor Anthony Welch																			
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Air Sensors Everywhere	Dr Richard Peltier																			
African Solutions to African Problems- Translating Indigenous Systems, Plants and Microbial Biodiversity into Drug Candidates for Neglected Tropical Diseases	Dr Dorcas Osei-Safo																			
Communicating Good Health and Wellbeing: Promotion, Advocacy and Resilience	Associate Professor Rob Cover																			
Assessment and Intervention Technologies for the Movement Ability of Older Adults: A Cross-Country Study	Dr Gangmin Ning																			
Data Analysis with Privacy Protection for Epidemiological Research (DAPPER)	Professor Paul Burton																			
Data Diplomacy: Political & Social Dimensions of Data Collection & Sharing	Dr Timothy Dye																			
Dementia Prevalence and Impact in Low Income Areas in South Africa	Dr Celeste De Jager																			
Developing and Researching the Economics and Mathematics of Selection (DREAMS): Global Perspectives	Dr Paul Tiffin																			
Early Life Opportunities for Prevention of Non-communicable Disease in Developing Countries	Professor Mark Hanson																			
Economics Cross-Cutting Theme	Professor Tom van Veen																			

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The effectiveness of health service/investment interventions aimed at reducing inequalities in health among older people in China: a longitudinal study	Dr Zhixin Feng																			
Global Initiative Promoting Meaningful Engagement of People with Advanced Dementia Ageing in Supported Living Environments	Dr Sanetta Du Toit																			
Health Promoting Responses to Climate Change	Associate Professor Ralph Maddison																			
Healthy Kitchens: Healthy Cities	Dr Helen Elsey																			
Helminths and Allergy in South-Africa and Northern Europe	Professor Cecilie Svanes																			
Immune Responses Underlying COPD Pathology	Dr William Horsnell																			
in-FLAME – International Inflammation Network	Professor Susan Prescott																			
Knowledge-Attitude-Practice (KAP) of caregivers in institutions of elder care in Zhejiang Province	Professor Hengjin Dong																			
Lessons for Life: Innovating and Evaluating School Age Health Education Interventions for the Prevention and Control of NCDs	Dr Marcus Grace																			
Mpower: Empowering Mothers for Health	Associate Professor Elena Carbone																			
Negotiating Transition to a 'Grown Up World': the Journey to Sexual and Reproductive Health for Unaccompanied Adolescent Asylum Seekers	Dr Jane March-McDonald																			
OPERA – Optimal Pregnancy Environment Risk Assessment	Professor David Olson																			
Pedestrian Pathways in the Healthy City	Professor Ralph Pite																			
Promoting Wellbeing Across Borders: Migration, Social Remittances and Health	Professor Sarah Salway																			
Provision of health service and community care for the elderly: intergenerational roles and equity	Associate Professor Eliza Lai Yi Wong																			
Reducing Inequality in Oral Health	Professor Linda Slack-Smith																			
Resilience in Young People and Service Providers	Professor Steve Reid																			
The Role of Big Data in Addressing the Determinants of Non-communicable Diseases in the Ageing Era	Associate Professor Simon Poon																			
Scoping Survey of Autism Support and Resources: Social Integration of Diagnosis, Healthcare and Support Systems	Professor Huso Yi																			
Schools as a Setting for Reducing Risk Factors for Non-communicable Diseases	Ms Jacquie Bay																			
Shaping Health Systems	Professor Stephanie Short																			
Social innovation and elderly care	Professor Ka Lin																			

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Global Adjustments to China's Growth Transition	Professor Peter Robertson						■	■							■			■	■		■
Global Africa Group	Professor John Hearn			■	■	■	■	■		■		■			■	■		■	■	■	■
Global China Group	Professor John Hearn	■	■	■	■	■	■	■		■					■	■	■	■	■	■	■
Global Initiative Promoting Meaningful Engagement of People with Advanced Dementia Ageing in Supported Living Environments	Dr Sanetta Du Toit		■				■	■									■	■	■		
Heritage Forts and Castles and Coastal Cultures of Ghana	Associate Professor Kodzo Gavua									■					■		■				
In-Herit: The Role of Heritage in Ontological Security During Migration and Displacement	Professor Elizabeth Brabec		■				■	■		■			■						■	■	■
Indian Ocean Archaeology Network	Professor Alistair Paterson		■			■	■										■	■	■	■	■
Knowledge-Attitude-Practice (KAP) of caregivers in institutions of elder care in Zhejiang Province	Professor Hengjin Dong		■															■	■		■
Labor Market Outcomes Among Highly-Skilled Immigrants and Return Migrants: The Role of Place of Education	Associate Professor Yuying Tong	■	■						■									■			
Marriage Migrants in Asia	Professor Su-lin Yu							■				■							■		
Migration, Development and Global Transformations (MDGT)	Ms Ann Singleton		■		■	■	■	■		■	■					■		■	■	■	■
Migration With and Without Children: Causes and Economic, Social and Psychological Consequences	Professor Junsen Zhang	■						■													■
Multilingualism & Mobility in the Northern & Southern Hemispheres	Dr Kristine Horner	■	■			■	■	■		■						■	■	■		■	
Negotiating Transition to a 'Grown Up World': the Journey to Sexual and Reproductive Health for Unaccompanied Adolescent Asylum Seekers	Dr Jane March-McDonald							■		■							■		■		■
Networking Young Citizens	Mr Brian Loader									■								■		■	■
Non-market valuation of loss and damage under climate change	Professor Petra Tschakert		■				■		■	■									■		

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Open WUN	Professor Graeme Earl		█				█	█	█		█			█	█		█				
Pedestrian Pathways in the Healthy City	Professor Ralph Pite		█		█	█				█							█		█	█	
Promoting Wellbeing Across Borders: Migration, Social Remittances and Health	Professor Sarah Salway	█				█			█		█					█					
Resilient Peace: Exploring resilient peacebuilding actors, cultures and policy transfer in West Africa	Dr Ana E. Juncos		█			█	█		█	█						█		█	█		
Structural Reinforcement of Inequality	Dr Francis Drake									█									█	█	
Sustainable Care: connecting people and systems	Professor Sue Yeandle	█	█													█		█			█
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Transformative Justice Network	Professor Paul Gready				█		█			█						█		█	█	█	█
The trans-nationalisation of indigenous movements: The role of digital technologies	Professor Michael Myers		█									█					█				
Understanding Globalization- Margins and Peripheries	Associate Professor Ana Deumert						█			█						█		█	█	█	
Web Observatory	Dame Wendy Hall	█			█					█						█	█		█	█	
Characterising the Transient Radio Sky with SKA Precursors	Professor Patrick Alan Woudt						█										█	█			
Spintronics	Dr Yongbing Xu					█				█						█	█			█	█

NOTES

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