



World Congress of Environmental  
and Resource Economists

Gothenburg | Sweden 25–29 June 2018

# PROGRAMME

# 6<sup>th</sup> World Congress of Environmental and Resource Economists

CONGRESS PROGRAMME

25 June – 29 June 2018

Gothenburg, Sweden

[www.wcere2018.org](http://www.wcere2018.org)



WCERE 2018 is hosted by the Department of Economics at the School of Business, Economics and Law, University of Gothenburg. The Congress is jointly organized by the Association of Environmental and Resource Economists (AERE), the East Asian Association of Environmental and Resource Economics (EAAERE) and the European Association of Environmental and Resource Economists (EAERE).

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# Welcome from AERE, EAAERE & EAERE presidents

Welcome to the sixth World Congress of Environmental and Resource Economists (WCERE) in the beautiful city of Gothenburg, Sweden! What a terrific opportunity for all of us who are able to be here for five days of outstanding academic programming and social events! More than 1,500 individuals will be attending the WCERE or its side-events which offer fantastic opportunities to present and debate exciting research with over 1000 contributed papers, 30 policy sessions, 70 thematic sessions, and numerous posters. We have four important plenary presentations by Lata Gangadharan (Compliance in Social Dilemmas: Insights from Experiments); David Hendry (Climate Econometrics); Meredith Fowlie (Carbon Pricing in the Real World); and Nava Ashraf (Human Nature and Human Development). In addition we have a special policy event when Gina McCarthy, who served as the 13th Administrator of the US EPA, will speak on “Environmental Policy and the Assault on Science”. Gina McCarthy will also participate in a special policy debate on “Climate Policy That Can Live Up to the Paris Goals” with a global panel consisting of Jos Delbeke, Senior Advisor to the EU Commission President; Hua Wang, President of the Chinese Association of Environmental and Resource Economists; and E. Somanathan, Professor, Indian Statistical Institute.

Our social interactions are important, too, as we renew old friendships and meet new colleagues in our field and there are some wonderful events planned while we are here. In addition, we are looking forward to recognizing some of the top scholars in our associations with awards for AERE Fellow and EAERE Outstanding Achievement Awards Recognizing Excellence (European Lifetime Achievement Award in Environmental Economics, European Practitioner Achievement Award in Applying Environmental Economics, European Achievement Award for Researchers in Environmental Economics under the Age of Forty); for outstanding publications in ERE and JAERE; the AERE Publication of Enduring Quality Award, the EAERE Award for ERC Grants laureates in the field of environmental and resource economics, and the Best Poster Awards.

We also want to express our deepest appreciation to the Local Organizing Committee hosting the WCERE this year, which is chaired by Thomas Sterner of the University of Gothenburg, and to all the members of the Local Organizing Committee. We also wish to thank the Scientific Committee co-chairs: Fredrik Carlsson, University of Gothenburg, Ben Groom, EAERE, Shunsuke Managi, EEAERE, and Gernot Wagner, AERE; and all our colleagues who served on the Programme Committee and helped select such an outstanding programme. Thank you also goes to Meetx and Fleximeets for their help with software and support. Special thanks to the EAERE, AERE, and EAAERE secretariats for all their support.

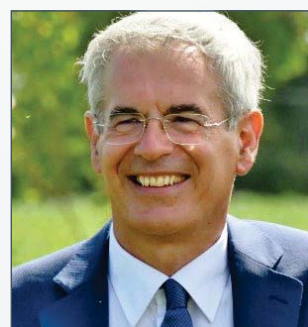
Finally, our sincerest thanks and appreciation is owed to the sponsors and partners of our meetings: Adlerbertska Forskningsstiftelsen, Swedish International Development Cooperation Agency, Environment for Development Initiative, The Richard C Malmsten Memorial Foundation, BECC, City of Gothenburg, Swedish Environmental Protection Agency, Volvo Group, KTH Royal Institute of Technology, Agence Française de Développement, Centre for Collective Action Research, Chair Energy & Prosperity, Göteborg & Co, Mistra Carbon Exit, Region Västra Götaland, CAERE, Renmin University of China, FRAM Centre, Grantham Research Institute, SDSN Northern Europe, Chalmers University of Technology, Stiftelsen Handelshögskolans Jubileumsfond, Environmental Defense Fund, GEMCLIME and Nudie Jeans Co. Without their contributions, our programme would have been much more limited.



Laura Taylor  
AERE President



Shiqiu Zhang  
EAAERE President



Carlo Carraro  
EAERE President

# Welcome message from Local Organizing Committee



## Dearest friends and colleagues,

We want to welcome you very warmly to Gothenburg! This is the second time we organize a large conference on environmental economics and this is no coincidence: we love to see our colleagues from across the World. In 2008, we had a European conference here. This time it is twice as big and it is a World Congress. We are pleased to welcome you to one of the homes of environmental economics. We are a large research group that works in this area since many decades back and we are doing our best to make you feel at home and to make this conference a truly inclusive event. Some of the highlights such as plenaries have been mentioned by the Presidents. We have tried to make the programme as interesting as possible for all different strands of our disciplines and for researchers from all over the world. I would like to dwell a moment on the purpose of a conference. We have spent the last year and a half fundraising and organizing the congress. I have been to all the World- and European conferences in environmental economics and so I have had time to think about this. We care about the environment and we care about research. We want the plenary events to be thought-provoking conversation starters. We want a diversity of challenging topics and approaches. But we also want our research to have impact in the so called “Real World”. In the first EAERE conference almost thirty years ago we were not much more than 50 people and now we are over 1500. New journals are started where we publish and new associations are started where we interact. We welcome in particular the new association CAERE from China that is newly formed but already making a strong presence with their own pre-conference here in Gothenburg.

Environmental economics has come a long way over these decades. When I welcomed many of you here ten years ago, EAERE turned 18 and we noted that environmental economics as a discipline had come out of its adolescence. At the 19th EAERE conference

in Prague, V Kerry Smith in his keynote challenged our profession that the severity of climate change and other environmental challenges throughout our economies ought to bring environmental economics to the forefront of economic policy. I would like to claim that we are there now! It is impossible to conceive that the world would meet the SDGs and the commitments in Paris without serious application of environmental economics. This is particularly evident in the Global South where important decisions are taken now to forge a sustainable development for their countries.

To reflect the increasing traction of environmental economics in policy-making we have a much greater emphasis on practitioners and policy makers. At previous conferences there has been a tradition to have a keynote in honor of the late David Pearce. At this World Congress we have multiple events that are directed to practitioners and policy-making and not least focusing on the Global South. We have several pre-conferences and courses that are in particular directed to environmental economists who work at various EPAs and other similar institutions. We have around 30 policy sessions which means that there will in every time slot be several policy oriented sessions to choose from, in addition to the many other thematic and parallel sessions. Finally we also have two special policy plenary events. Today we face a double dilemma with serious environmental threats as well as serious threats to democracy and good governance. Gina McCarthy who was appointed by President Obama as the 13th Administrator of the USEPA has chosen as her topic the “assault on science and truth”. This will be just at the end of the pre-conference for practitioners and at the beginning of the main conference on Monday evening. On Tuesday evening there will be a debate on the predicament of our global



climate governance between representatives from the USA (Gina McCarthy), EU (Jos Delbeke), China (Professor Hua Wang) and India (Professor E Somanathan).

We have also been keen at this meeting to live as we preach. It is hard to avoid air travel in a global conference. In the EAERE 2008 we actually put a lot of effort into getting the European railways to sponsor and support the conference. That was not easy and experience shows that it has become even more difficult to travel to Sweden even from Germany or France by train. This is an area which needs much more work. We trust most people pay climate compensation for their air travel – even if many of us doubt that is enough! We are sometimes accused of being hypocrites who travel around to conferences discussing taxation of air travel to stop tourists going on vacation. We must reflect on this but we believe the scientific value of climate conferences for overall policy can be worth more than the tons of CO<sub>2</sub> emitted. But this will only be the case if we make the most of our time together by getting to know new people, challenge and improve each other's ideas and strike up new research collaborations. So socializing is important during the coffee breaks and social events and we thank our sponsors who have contributed to them. Let us ensure that the carbon emitted for WCERE 2018 results in better research and greater policy impact. The purpose is to get that extra human touch and contact that you don't get by reading the articles online. It is Midsummer and this is the best time of the year to visit Scandinavia. With any luck the sun will shine, our plentiful and empty nature will be beautiful and welcoming. We hope that you make the best use of your trip here and extend it to see the wonders of our environment.

Another way in which the conference affects the environment is through the food we eat and waste we produce. Red meat is (largely because of methane) a rather overlooked but very important driver of climate change. We have decided to try to make the food a culinary experience and at the same time to be largely vegetarian. There will be a small amount of non-vegetarian options on one occasion – it is Midsummer and we are by the sea so there will be a little seafood but just as a supplement. The main focus will still be vegetarian. We will not be handing out a lot of “stuff” like programs, brochures, pens etc. This also means that we will not be handing out bags to put the stuff in. In our experience the transformation of all this “stuff” to waste is rapid – virtually instantaneous. We have however bought umbrellas. Although we remain eternal optimists and believe in summer weather forever, we also believe in prudence and insurance and hence umbrellas.

We hope that you will enjoy the social programme and

meet new people. We are very keen on making the World Congress INCLUSIVE. Being inclusive means that we listen to and make room for people with other ideologies, backgrounds, disciplines and cultures. We make an effort to reach out to related disciplines be they forestry or fishery specialists, ordinary economists, macro or micro, ecological economists, political scientists and other disciplines that are close to ours or environmental scientists from all disciplines. Being inclusive at a World Congress means making a special effort to reach out to other countries and regions, particularly those typically less represented at such meetings. We are proud and pleased that we have received large contributions from the Swedish International Development Cooperation Agency, the International Development Research Centre, the Agence Française de Développement, the Environment for Development Initiative, EAERE and others that have facilitated funds for a record number of scholarships for participants from low income countries.

When such a heterogeneous crowd is making friends and having a good time we need to remember that respect takes many forms and hope that many of us make the extra effort to understand people from different cultural backgrounds. We are still within the year in which #Metoo exploded and we should all have learnt something about the importance of meeting people with love, care and respect. I hope that at this conference we will show each other the maximum of respect in all dimensions – personal, political, cultural and intellectual! I also hope you will learn a lot, enjoy yourself and make many new friends.

*Once again, a very warm welcome!*

*Thomas Sterner and Åsa Löfgren*



## Local Organizing Committee



Thomas Sterner  
Professor,  
Dept. of Economics,  
Chair of the Local  
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WCERE2018



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Anne Belfrage  
Project Manager,  
WCERE 2018



Frida Nilsson  
Project Coordinator,  
WCERE 2018

# WCERE 2018 - Program Overview

25 June - MONDAY	26 June - TUESDAY	27 June - WEDNESDAY	28 June - THURSDAY	29 June - FRIDAY
<b>Pre-congress events</b> 08.00-18.00 Registration open	8.30-10.15 <b>Parallel sessions</b>	8.30-10.15 <b>Parallel sessions</b>	8.30-10.15 <b>Parallel sessions</b>	8.30-10.15 <b>Parallel sessions</b>
10.15-10.45 <b>Coffee break</b>	10.15-10.45 <b>Coffee break</b>	10.15-10.45 <b>Coffee break</b>	10.15-10.45 <b>Coffee break</b>	10.15-10.45 <b>Coffee break</b>
10.45-11.15 <b>Opening ceremony</b>	10.45-11.15 <b>AWARDS:</b> EAERE Lifetime / Practitioner Achievement Awards	10.45-11.15 <b>AWARDS:</b> AERE Publ. Of Enduring Quality & Best Article in JAERE EAERE: Young Economist Award & Outstanding Publication ERE and EU ERC award	10.45-11.15 <b>AWARDS:</b> AERE Publ. Of Enduring Quality & Best Article in JAERE EAERE: Young Economist Award & Outstanding Publication ERE and EU ERC award	10.45-11.45 <b>Plenary session</b> Keynote: Nava Ashraf
11.15-12.15 <b>Plenary session</b> Keynote: Lata Gangadharan	11.15-12.15 <b>Plenary session</b> Keynote: Sir David F. Hendry	11.15-12.15 <b>Plenary session</b> Keynote: Meredith Fowle	11.15-12.15 <b>Plenary session</b> Keynote: Meredith Fowle	11.45-12.15 <b>Closing ceremony</b>
12.15-13.45 <b>Lunch</b> EAERE - Country representatives meeting* EAERE Board meeting* AERE Board meeting* LAERE meeting Environmental Defense Fund Brown Bag Event	12.15-13.45 <b>Lunch</b> AERE Members Lunch EAERE General assembly EAERE Annual General Assembly of Members POSTER SESSION	12.15-13.45 <b>Lunch</b> LAERE meeting EDE Editorial Board Meeting* ERE Editorial Board Meeting* JAERE Editorial Board Meeting* REEP Editorial Board Meeting* POSTER SESSION	12.15-13.45 <b>Lunch</b> AERE, EAERE, EAERE joint meeting of the presidents CAERE meeting LAERE meeting	12.15-13.45 <b>Lunch</b> Optional Post-congress tour to Marstrand Island Dinner and Party
12.30-17.00 <b>EAERE Council Meeting*</b>	13.45-15.30 <b>Parallel sessions</b>	13.45-15.30 <b>Parallel sessions</b>	13.45-15.30 <b>Parallel sessions</b>	13.45-15.30 <b>Parallel sessions</b>
15.30-16.00 <b>Coffee break</b>	15.30-16.00 <b>Coffee break</b>	15.30-16.00 <b>Coffee break</b>	15.30-16.00 <b>Coffee break</b>	
16.00-17.45 <b>Parallel sessions</b>	16.00-17.45 <b>Parallel sessions</b>	16.00-17.45 <b>Egg-timer sessions</b>	16.00-16.40 <b>Egg-timer sessions</b>	
18.00-18.20 <b>AWARDS: AERE Fellows</b>		16.45-18.30 <b>Parallel sessions</b>	16.45-18.30 <b>Parallel sessions</b>	
18.15-19.10 <b>Special Policy Lecture</b> by Gina McCarthy	18.20-19.40 <b>Special Policy Session:</b> Jos Delbeke, Gina McCarthy, Hua Wang, E. Somanathan	18.15 Buses to Congress Dinner from Lilla Bergsgatan		
19.15 - 21.00 <b>Welcome Reception</b> at Handels		18.30 - 02.00 <b>Congress dinner **</b> at Eriksbergshallen	18.30 - 23.00 <b>Social event</b> at Handels	

\*Invitation only

\*\* The Congress Dinner is included in the standard registration fee only

At Smyrna: all plenary sessions, opening and closing ceremony, awards, the special policy lecture and special policy session



## Congress venue and floor plans

The WCERE 2018 is held at the School of Business, Economics and Law ("HANDELS") and the Faculty of Social Sciences of the University of Gothenburg ("HAGA"). Please see floor plans on pages 10-11

All plenary sessions will be held in Smyrna, a few minutes walk from Handels and Haga.

Handels and Haga are divided into buildings that are identified by letters. Rooms are located through their designation, e.g B34 means B-building, 3rd floor, room 34.

Larger lecture halls have no numbers

### Handels

Aulan	G -building, 3rd floor
CG-salen	F, 4th floor
E 44/GBJ-sal	E, 4th floor
Malmstensalen	A, 2nd floor
SEB-salen	E, 4th floor
SKF-salen	F, 4th floor
Volvosalen	E, 4th floor

### Haga

Dragonen	A, 1 st floor
Sappören	E, 1 st floor

**HANDELS** - School of Business, Economics and Law  
Visiting address: *Vasagatan 1*

At HANDELS you will find:

- Parallel session rooms
- Exhibition area
- Lunch stations
- Coffee/tea stations
- Institutional meeting rooms

**HAGA** - Faculty of Social Sciences

Visiting address: *Sprängkullsgatan 19*

At HAGA you will find:

- Information desk
- Registration area
- Parallel session rooms
- Meeting rooms
- Coffee station
- Cloakroom
- Tourist information
- First Aid

**SMYRNA** - for plenary sessions

Visiting address: *Haga Kyrkogata 2*

To walk to Smyrna from the entrance of Handels: please cross the road and walk across Haga Kyrkoplan and you will have Smyrna on the right side of the park (close to the tram tracks) and behind the Haga church.

### Getting to the Congress Venue

Tram stop: "Handelshögskolan" (Tram line 2)

Tram stop: "Hagakyrkan" (Tram lines 3, 6, 11)

Tram stop: "Vasa Viktoriagatan" (several lines)

Bus 25, 761 and Rosa Express, get off at "Pilgatan", right next to the Handels and Haga.

To get to the plenary venue Smyrna, the nearest stop is "Hagakyrkan" (Haga Church)

Please use Google maps to find your way to the venue.





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**JOURNAL of the  
ASSOCIATION of  
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and RESOURCE  
ECONOMISTS**

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As the official research journal of the Association of Environmental and Resource Economists, *JAERE* publishes papers that are devoted to environmental and natural resource issues. The journal's principal mission is to provide a forum for the scholarly exchange of ideas in the intersection of human behavior and the natural environment. *JAERE* presents a range of articles that are relevant for public policy, using approaches that are theoretical, empirical, or both. Learn more at [journals.uchicago.edu/jaere](http://journals.uchicago.edu/jaere).

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# Practical information A-Z

## Accessibility

All entrances are accessible by wheelchair except entrance J at Handels (stairs).

All lecture halls and rooms are accessible by wheelchair, except for Dragonen, Haga.

Automatic door openers – available throughout Handels and Haga.

Hearing loop at Haga – only available in Sappören

Hearing loop at Handels – available in Malmstensalen, Aulan, C22, Volvo, SEB, SKF, C24, C33

For hearing loop at Smyrna – please take seat in the middle of the hall and there will be automatic connection to your hearing aid

Special Dietary Requirements will be served at A-building, floor 3.

Restrooms accessible by wheelchair at Handels: Floor 2 (A and C-building), Floor 3 (E-building), Floor 4 (E-building) Please also see floor maps.

Restrooms accessible by wheelchair at Haga: C-building (floor 2), E-building (floor 1) (close to Sappören)

For special requirements, please contact [wcere2018@gu.se](mailto:wcere2018@gu.se) prior to the congress, or visit the registration desk at Haga, Sprängkullsgatan 19.

For more information about accessibility in Gothenburg in general, <https://www.goteborg.com/en/accessibility-in-gothenburg/>

## Announcements and programme changes

Programme changes and other messages for participants will be announced on the message board in the registration/information area and in section “Announcements” in the Congress app.

## Cloakroom

There are cloakroom facilities in the registration area. The organisers cannot be held responsible for damage to or loss of their personal property howsoever caused. Please note the opening hours for the information desk if you leave luggage in the cloakroom while going to the Welcome reception or the Social event. There is no cloak room at Handels.

## Computer Room

Computers are available for your access at Haga, by the registration area. Printing facilities is also available.

ble. Please contact the information desk for more information regarding printouts. Printing facilities and computers are also available in the Handels Library, A-building, floor 3, during opening hours, 9.00-16.00 (Monday-Friday). Please contact the library staff.

## Crew

Members of the WCERE 2018 crew are recognized on their black t-shirts, green badges and lanyards and will make sure that programme and practicalities run smoothly throughout the Congress week. Crew members will assist during registration, sessions, breaks and social events, and are happy to provide information and guidance.

## Exhibition area

At Handels, B - D buildings, floor 3.

## First aid and pharmacy

The WCERE first aid team can take care of minor damages, acute illness at an initial stage and provide first aid. Please come to the onsite registration desk at Haga or talk to the WCERE crew team and we will help you. If medical emergency please call 112.

## Pharmacy

Apoteket Svanen, Linnégatan 16 (750 m)

Apotek Hjärtat, Kungsportsavenyn 26-28 (1 km)

## Important phone numbers

The emergency phone number in Sweden that will put you in touch with all the **emergency services**:

**112**

Sweden's country code is + 46

To call abroad mark +xy or 00xy (xy= country code) followed by area code and number.

## In case of fire

“Think before” – Study the evacuation plans posted in corridors and entrances in the buildings you visit and make sure to know the location of the nearest fire extinguishers and fire alarms, as well as emergency exits and assembly point. Observe the emergency handles and knobs.

- If the fire alarm sounds – start evacuation immediately. The fire alarm sound is ringing bells.
- Assist others that are in obvious danger, as long as you do not expose yourself to risks.



- Warn others who may not perceive the alarm.
- Escape routes and emergency exits are clearly marked with green signs; always choose the nearest safe emergency exit.
- Go to assembly point: Hagaparken
- If present, follow directions given by staff in bright orange vests

### Information desk

Please read more under the section Registration and information desk

### Insurance

The Organizers cannot be held responsible for accidents to participants or for damage to or loss of their personal property howsoever caused.

### Lost-and-Found

Lost-and-Found will be collected in the registration area.

### Lunch and coffee/tea breaks

Lunch will be served at food stations at Handels only.

There will be several coffee/tea stations situated at Handels and one coffee/tea station in Haga by the registration area.

All lunches are vegetarian

Special dietary requirements will be served in A-building, floor 3.

Please feel free to use the tents at the Inner courtyard and the Courtyard during lunchtime.

Standing tables can be found and used throughout Handels.

Tables and chairs are available around Handels but mainly in the E-building at floor 3 and at Hyllan at floor 4.

Please do not bring food or drinks to the session rooms, except if you are attending a lunch meeting.

Participants in institutional meetings (except AERE Members Lunch) will find lunch boxes outside the meeting rooms. If you have any special dietary requirements, please pick up your lunch box in A-building floor 3. For participants in institutional meetings we recommend you to use entrance A when arriving from Smyrna.

### Media

WCERE 2018 on Twitter: @WCERE2018  
Please use #wcere2018 in social media

### Contact person media and press:

Marie Andersson, Communications Officer  
marie.andersson@economics.gu.se  
+46-31-786 13 49

### Meeting facilitation

There are a limited number of small meeting rooms available for WCERE participants during the Congress week. To check availability and book your meeting room, please contact the information desk (registration area) at the Congress venue (Haga).

### Name badge

By the registration at Haga, Sprängkullsgatan 19, you will get your name badge using the bar code from your booking confirmation (that you received by e-mail or sms).

All the participants in WCERE 2018 are requested to wear their name badges (given on registration) at all times. Only participants wearing name badges will be allowed access to the scientific sessions, coffee and lunch breaks and all social events.

### No smoking policy

According to Swedish law, smoking is prohibited inside any building, venue, hotels, busses, etc. Smoking is only allowed in open-air zones.

### Public transport

Gothenburg has an extensive network of trams and buses. A single ticket is available from 27 SEK. You can also purchase day tickets (24 hours or 72 hours) which are valid on trains, buses, trams and ferries from the time of activation.

You can buy your ticket in the Västtrafik To Go app or buy a Västtrafikkort. In the app, you simply buy a new ticket when the old one has run out. With a Västtrafikkort, you top it up again when your period ticket has expired or there is no more money left on the card.

All tickets and travelling cards (Västtrafikkort) can be purchased at any of the public transport operator Västtrafik's sales outlets as well as at the Tourist Centre or at kiosks like Pressbyrå or 7-Eleven, or at grocery stores like ICA. Single tickets can be purchased on board the trams with bankcard. If you travel by bus you cannot purchase tickets on board, so please pre-purchase your ticket.

Travel planner- We advise you to use the travel planner to find your way within the Gothenburg area.

Västtrafik To Go app - makes it easy to buy tickets on your smartphone.

### Registration and information desk

The WCERE congress registration and information desk is located at Haga, entrance at Sprängkullsgatan 19.

By the registration desk you will get your name badge using the bar code from your booking confirmation (that you received by e-mail or sms).

By the registration area you will find:

- Information desk
- Cloakroom
- AERE, EAERE and EAAEREstands
- First aid
- Tourist information

### Opening hours for Registration and information desk

**25 June**, Monday . . . . . 08.00 – 21.00  
(cloakroom open to 22.00)

**26 June** Tuesday . . . . . 07.30 - 19.00

**27 June** Wednesday . . . . . 08.00 - 18.00

**28 June** Thursday . . . . . 08.00 - 19.00  
(cloakroom open to 23:00)

**29 June** Friday. . . . . 08.00 –16.00

### Taxis

If you need a taxi you may call:

Taxi Göteborg +46 (0) 31 650 000

Taxi Göteborg download the app for Iphone or Android.

### Water bottles

All WCERE 2018 participants will get a water bottle made of glass– please bring it with you and use it during the Congress. Pick up your bottle when registering and fill it regularly at your nearest tap at the venue, hotel or in the city centre – Sweden has excellent tap water for drinking. There are also several water stations at the venue (see floor plan). Please note that there will be no other drinks served during lunch. We also hope that you will use the bottle for many years after the Congress!

### Wifi

All participants have access to the wireless internet connection with following details;

### Handels and Haga:

Wifi **WCERE2018**  
Username **WCERE2018!**

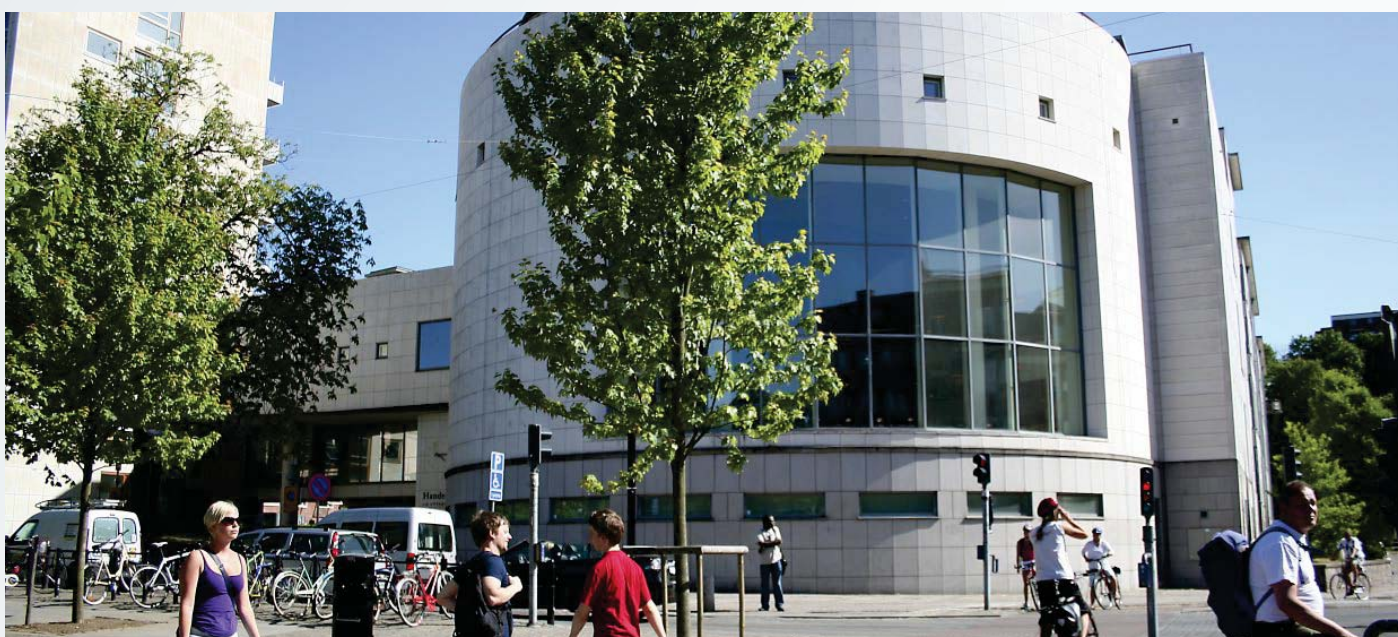
### Smyrna:

Wifi **Smyrna**  
Username **kafesmyrna**

WCERE participants can also use their access to the Eduroam network.

### Working spaces

You can find quiet working- and reading spaces in the library (Handels Building A, floor 3). Opening hours: 9.00-16.00 (Monday-Friday). In the library you also find printing facilities – please contact the library staff.



Handelshögskolan, The Library



**Explore** *JBCA* with  
free access to a  
special WCERE  
online collection

Journal of  
**Benefit-Cost  
Analysis**

The only journal devoted exclusively to benefit-cost analysis, the leading evidence-based analytical method for determining if the consequences of specific public actions make society better off overall. *JBCA* publishes theory, empirical analyses, case studies, and techniques.

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**[cambridge.org/JBCA-WCERE](http://cambridge.org/JBCA-WCERE)**

Authors include: Andersson, Belova, Bernheim, Cory, Good, Graham, Grambsch, Gray, Jin, Kopits, Krutilla, Li, Linn, Masterman, McGartland, Morgan, Mogenstern, Pasurka, Pizer, Robinson, Shadbegian, Simon, Simpson, Sussman, Taylor, Viscusi, Weaver, Wolverton, and Zhang

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# ANNUAL REVIEW OF RESOURCE ECONOMICS

The *Annual Review of Resource Economics*, in publication since 2009, provides authoritative, critical reviews evaluating the most significant research developments in resource economics, focusing on agricultural economics, environmental economics, renewable resources, and exhaustible resources. Special attention is given to distinctions in how these issues arise in developed and developing economies.

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EDITOR: **Gordon C. Rausser**, *University of California, Berkeley*

ASSOCIATE EDITOR: **David Zilberman**, *University of California, Berkeley*

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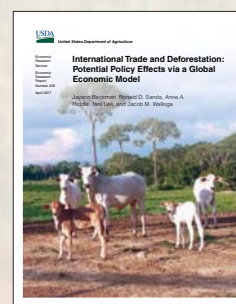
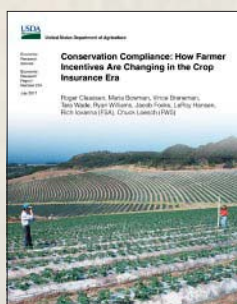


United States Department of Agriculture

USDA's **Economic Research Service** conducts high-quality, objective research that includes the economic, environmental, and distributional implications of conservation policies and programs. ERS also investigates the environmental impact of broader agricultural policies and programs on land use, input use, and conservation practice adoption. ERS shapes its research program and products to inform and enhance public and private decision making. You can find ERS research online, in peer-reviewed journals and through *Amber Waves*, a monthly online magazine.

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- ***Farm Profits and Adoption of Precision Agriculture***
- ***International Trade and Deforestation: Potential Policy Effects via a Global Economic Model***



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## SOCIAL EVENTS



Eriksbergshallen - Official Congress Dinner venue

### 25 June - Welcome Reception

Time: 19.15

Venue: Handels

Address: Vasagatan 1



**City of  
Gothenburg**

Following the registration and the Special policy lecture by Gina McCarthy you are welcome to the Welcome Reception at Handels to mingle with old friends and new. The Welcome Reception is sponsored by the City of Gothenburg. We will enjoy light snacks and refreshments.

### 27 June - Official Congress Dinner

Time: 18.30-02.00

The mingle at Eriksbergshallen starts at 18.30

Venue: Eriksbergshallen

Address: Maskingatan 11

The congress dinner will take place at Eriksbergshallen, located on the Hisingen island. A shipyard steeped in tradition has been transformed into a lively first class multi-purpose venue. This modern history environment has the characteristic features of rustic architecture, light and proximity to the water.

Enjoy great food, live music and fun at this venue situated with a magnificent view across Gothenburg and the harbour entrance. Eriksbergshallen previously housed Eriksbergs mekaniska verkstad (a metal

working and machining company).

Resources for the Future (RFF) President and CEO, Richard Newell, and Euro-Mediterranean Center on Climate Change (CMCC) President and CEO, Antonio Navarra, will make a major announcement on future cooperation between their two organizations.

Transportation by coach will be arranged to take you to the venue:

18.15 Buses will leave from Handels, Lilla Bergsgatan (close to E and D entrance at Handels)

From Eriksbergshallen there will be buses leaving every half hour after the dinner, starting at 23.00. First come first served.

For public transport please use the Travel planner  
Nearest bus stop: Eriksbergstorget

Last bus to Centralstation from Eriksbergstorget: leaves at 01:15

Last ferry from Eriksbergs Färjeläge to Stenpiren (285 Älvsnaven): leaves at 00.05

Västtrafik To Go app - makes it easy to buy tickets right on your smartphone.

Taxi Göteborg +46 (0) 31 650 000  
Taxi Göteborg download the app for Iphone or Android.



**28 June - Social event**

Time: 18.30-23.00

Venue: Handels

Address: Vasagatan 1

Join the Social event at Handels right after the last parallel session of the day. Enjoy refreshments and a vegetarian meal complemented with some traditional seafood.

In the evening, you can choose from various events. Listen, mingle or dance to live music and DJ, join the open mic or participate in the card game Climate Call to get to know the climate impact from our everyday life – or go to Haga where one of the evening games of the World cup will be shown in the lecture hall Sappören

We look forward to celebrating WCERE 2018 with you!

**29 June – Optional Post conference tour to Marstrand**

For participants with pre-paid tickets for the Marstrand tour.

We will enjoy the post conference dinner at the beautiful Societetshuset.

*To Marstrand (from Handels)*

16.00 Buses will leave from Handels, Lilla Bergsgatan (close to E and D entrance at Handels)

Please do not forget to collect your stored luggage from the cloakroom at Haga before you leave.

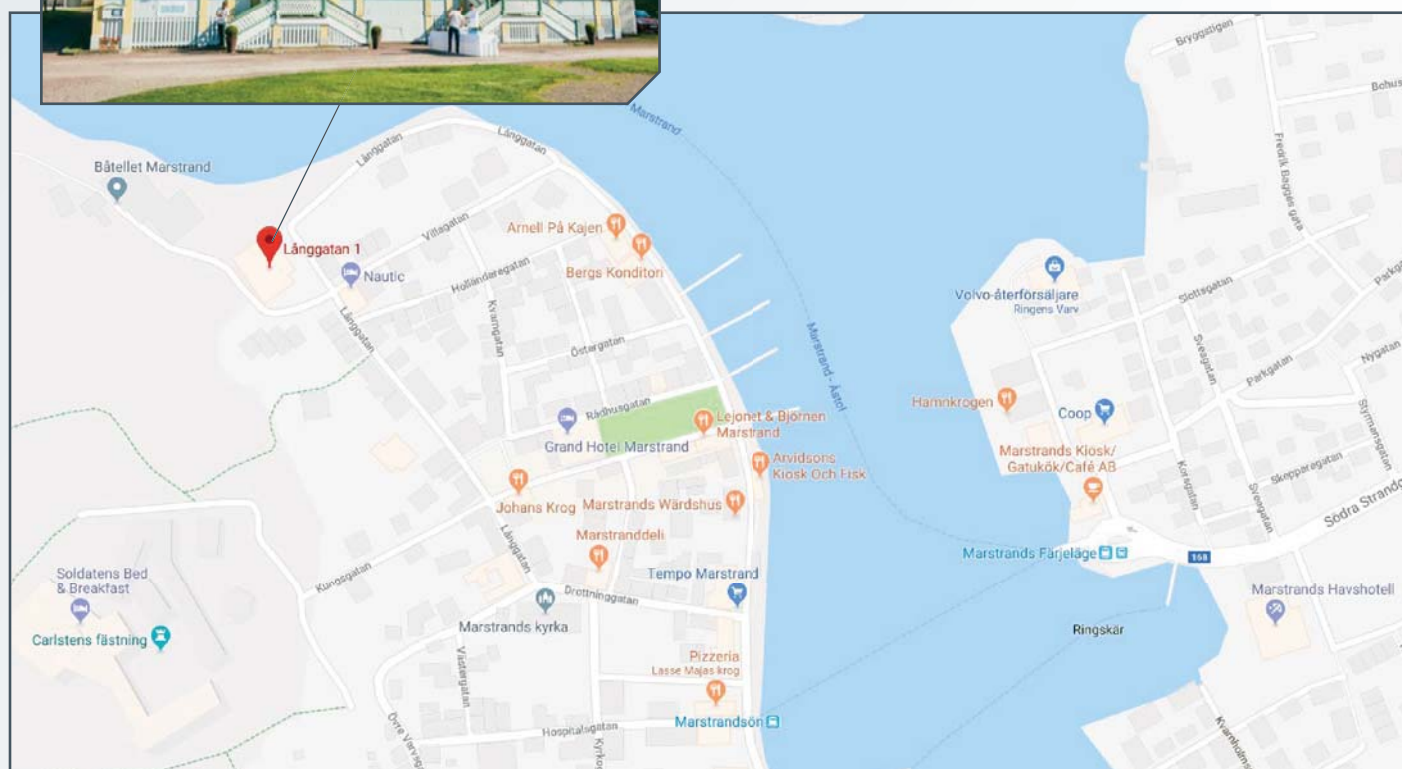
*From Marstrand to Gothenburg, by pre-booked coach*

29 June Buses will leave from Marstrand and take you back to Gothenburg in the evening at 00.15 and 02.15.

30 June Buses will leave from Marstrand at 13.00 (for those staying overnight on Marstrand)

If you have decided to arrange the travel back to Gothenburg by your own, we advice you to use the Travel planner to find your way within the Gothenburg area.

At Marstrand the ferry stop is called Marstrandsön.



Societetshuset located on the Marstrand Island used to be a resort for the Swedish king Oscar II



# Master of Environmental Policy



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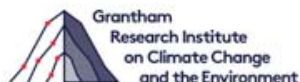


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Special thanks to:



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\*The project GEMCLIME has received funding from the European Union's Horizon 2020 research and innovation programme under the Marie Skłodowska-Curie grant agreement No 681228. The views expressed in the side-events represent only those of the project GEMCLIME and do not engage the European Commission.



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The international Master of Environmental Policy (iMEP) is a two-year program with 3 semesters studying at Duke Kunshan University in China and 1 semester at Duke University in the US. Students will graduate with a Duke University degree offered by the Nicholas School of the Environment and Sanford School of Public Policy. The iMEP program provides world-class faculty, cutting-edge research center, innovative curriculum, multi-cultural experiences, and unparalleled career opportunities. It prepares tomorrow's global environment leaders. All applicants will be considered for merit-based scholarships.

<http://environment.dukekunshan.edu.cn>



### EDF

Environmental Defense Fund (EDF) is one of the world's largest environmental nonprofit organizations, with more than two million members and a staff of 700 scientists, economists, policy experts and other professionals working around the world. EDF finds

practical and lasting solutions to the world's most serious environmental problems. Working with leading businesses, innovators, scientists and academics, EDF is catalyzing scalable solutions for minimizing the environmental, economic and human health risks associated with rising greenhouse gas emissions.

<https://www.edf.org/>



### The Environment for Development Initiative

The Environment for Development Initiative (EfD) is an international network of environmental economics think tanks. We build domestic centers of excellence in research, policy interaction and academic programs with a focus on environmental issues and poverty alleviation in the developing world.

Today, EfD consists of over 160 accomplished environmental economists with many different specializations, who are active in leading local academic research institutions. EfD has 12 centers across the world, in Chile, China, Colombia, Costa Rica, Ethiopia, India, Kenya, Sweden, South Africa, Tanzania, Vietnam, and the USA, and is coordinated from the University of Gothenburg, Sweden.

**ELSEVIER**

### Elsevier

Elsevier is a global information analytics business that helps institutions and professionals advance health-care, open science and improve performance for the benefit of humanity.

<https://www.elsevier.com/>





### Mistra Carbon Exit

The climate policy research programme Mistra Carbon Exits aim is to identify and analyze the technical, economic and political opportunities and challenges for Sweden to reach the target of net zero greenhouse gas emissions by 2045.

Backing the programme is an international consortium of universities, research institutes, agencies and some 20 companies.

[www.mistracarbonexit.com](http://www.mistracarbonexit.com)



### Nordic council

The remit of the intersectoral Environment and Economy Group is approved by the Nordic Council of Ministers' environment and climate sector as well as the finance sector. Its main role is to generate economic development based on sustainable production and consumption patterns and decouple environmental impact from economic growth. The Group's projects aim to link to and contribute to current Nordic and international processes. To achieve this, it makes contributions to ongoing debates, draft reports and seek to inform the public about the results of various projects. Project outcomes should be of political interest from an environmental and financial perspective.

[www.norden.org/meg](http://www.norden.org/meg)



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The University of Chicago Press publishes more than 70 journals in the social sciences, humanities, education, biological sciences, and physical sciences, including the Journal of the Association of Environmental and Resource Economists, Marine Resource Economics, and the Journal of Political Economy.

[www.journals.uchicago.edu/toc/jaere/current](http://www.journals.uchicago.edu/toc/jaere/current)



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[www.worldscientific.com](http://www.worldscientific.com).

Our noteworthy titles in Environmental and Resource Economics include: Climate Change Economics, and Water Economics and Policy (journals), Reversing Climate Change and Pollution Across Borders (books).

# Meetings and related events

## Pre congress events

### 19-21 June

"IEW 2018 – The 37th Edition of International Energy Workshop"

### 23-25 June

Summer course "Spatial Analysis in Economics and the Environment"

Summer course "Application of Experimental Methods in Climate Policy"

Workshop "Women in Environmental Economics"

### 25 June

EfD Forestry Collaborative Meeting

GEMCLIME Annual and Review Meeting

Pre-conference "Supply and Demand of Environmental Economics Policy Advice"

Pre-conference "Frontiers of Research on Carbon Markets"

Pre-conference "Economics of Environmental Protection and Nature Conservation in China"

Pre-congress session "Economic Instruments for Water-scarce Cities – Experiences and Implications"

## Institutional meetings and Editorial board meetings

Most institutional meetings and editorial board meetings take place in the C3 and D3 areas at Handels.

Participants in institutional meetings (except AERE Members Lunch) will find lunch boxes outside the meeting rooms. If you have special dietary requirements, please pick up your lunch box in A-building, floor 3. For participants in institutional meetings we recommend to use the entrance A when arriving from Smyrna. Please note that the AERE Members Lunch takes place in Haga (Kafé Haga), which means you need to cross the street from Handels after you have picked up your lunch

### June 25, Monday

EAERE Council Meeting*	Handels C 35	12.30-17.00
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### June 26, Tuesday

EAERE Country representatives meeting*	Handels C 33	12.15-13.30
EAAERE Board Meeting*	Handels C 31	12.15-13.30
AERE Board Meeting*	Handels C 35	12.15-13.30
LAERE meeting	Handels C32	12.15-13.30
EDF Brown Bag Event	Handels D 32	12.15-13.30

### June 27, Wednesday

AERE Members Lunch (Please note this meeting is at Haga, entrance by E-building, Sprängkullsgatan 25)	Haga Kafé Haga	12.15-13.30
EAAERE General Assembly	Handels C 33	12.15-13.30
EAERE Annual General Assembly of Members	Handels D 33	12.15-13.30

### June 28, Thursday

IAERE meeting	Handels D 32	12.15-13.30
EDE Editorial Board Meeting*	Handels C 31	12.15-13.30
ERE Editorial Board Meeting*	Handels C 32	12.15-13.30
JAERE Editorial Board Meeting*	Handels C 35	12.15-13.30
REEP Editorial Board Meeting*	Handels C 33	12.15-13.30

### June 29, Friday

AERE, EAAERE, EAERE joint meeting of the presidents followed by meeting with CAERE, LAERE presidents*	Handels C 33	12.15-13.30
CAERE meeting*	Handels C 35	12.15-13.30

\*invitation only



## Other events

### EDF Brown Bag Event

*Tuesday June 26 12:30-13:00, Room Handels D 32 (Bring your conference lunch box)*

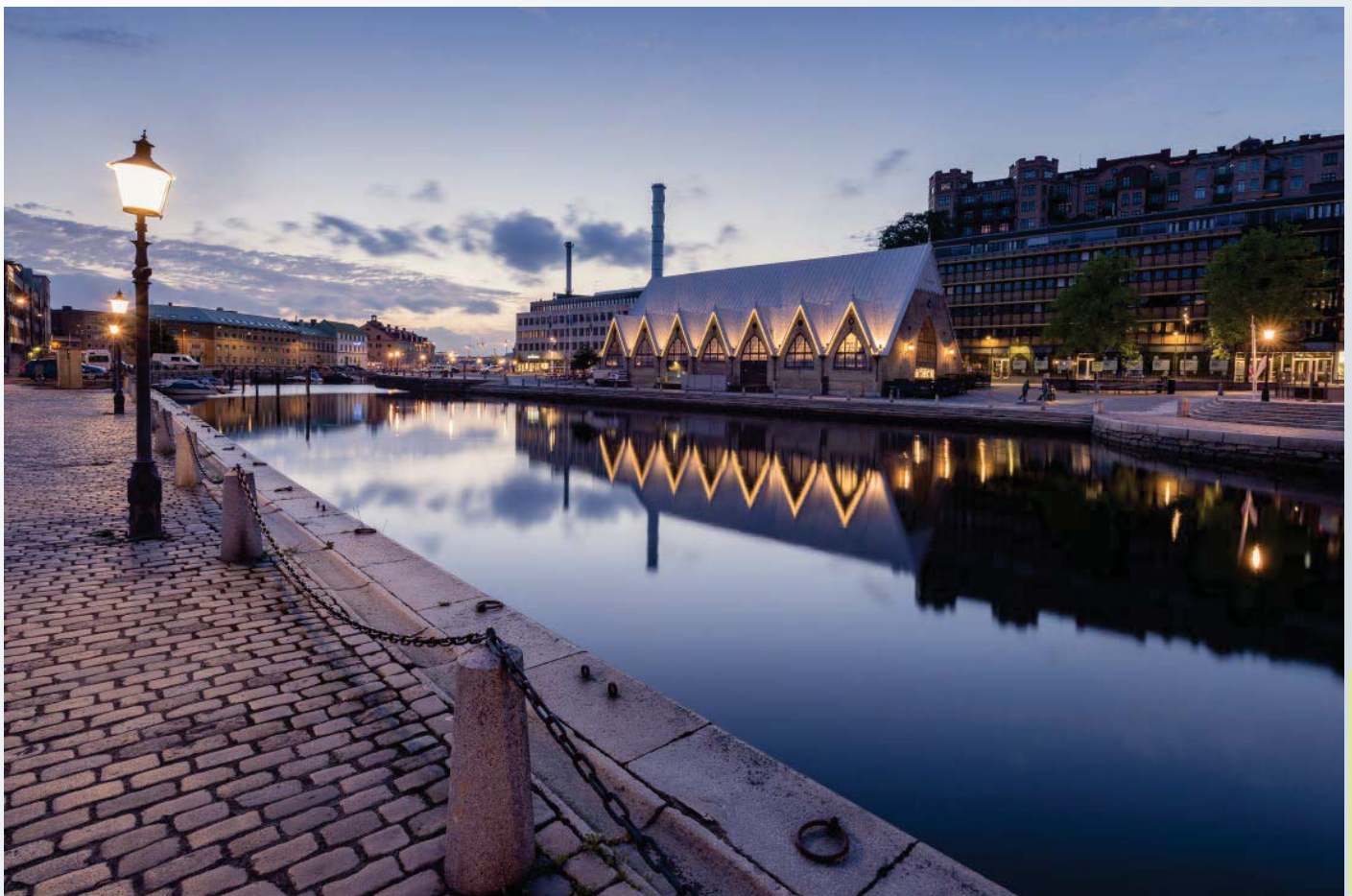
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All welcome!

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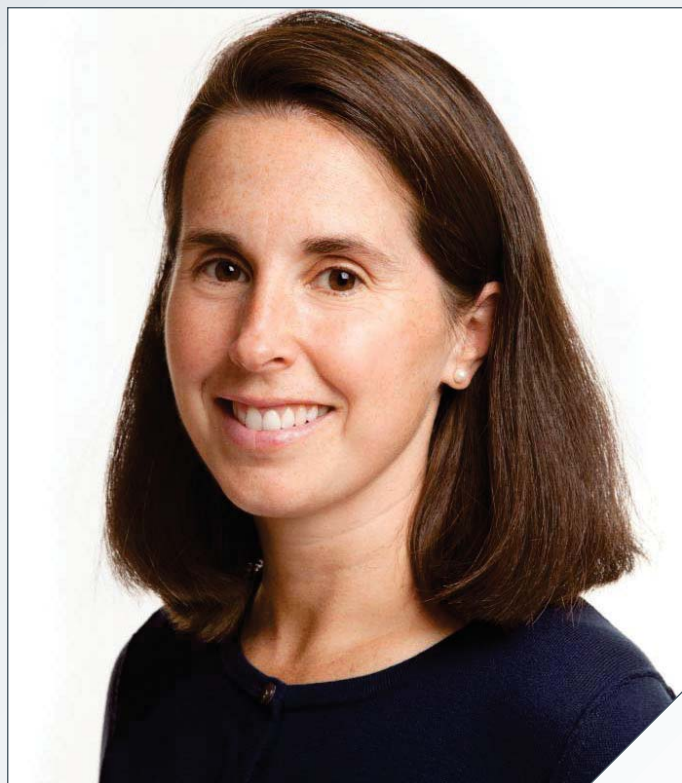
## Plenary speakers



Nava Ashraf  
London School of Economics

Nava Ashraf is Professor of Economics at the London School of Economics and Political Science and Director of Research at the Marshall Institute for Philanthropy and Social Entrepreneurship. Professor Ashraf is affiliated to M.I.T. Jameel Poverty Action Lab (J-PAL), Centre for Economic Policy Research (CEPR) and Bureau for Research and Economics Analysis of Development (BREAD). She has a background at Harvard Business School.

Nava Ashraf conducts research at the intersection of psychology and economics, using both lab and field experiments to test insights from behavioural economics in the context of global development in Africa, Latin America, and Southeast Asia. Her research also covers questions of intra-household decision making in the areas of finance and fertility.



Meredith Fowlie  
University of California

Meredith Fowlie holds the Class of 1935 Endowed Chair in Energy at University of California, Berkeley, and is an Associate Professor in the Agriculture and Resource Economics department. She is a research associate at UC Berkeley's Energy Institute at Haas and the National Bureau of Economic Research.

Meredith Fowlie is an applied economist combining the fields of industrial organization, energy markets, and environmental economics. Much of her work investigates how market-based environmental regulation – emissions trading programs in particular – are working in practice. Dr. Fowlie is also interested in the demand-side of energy markets and work that integrates methods and models from other disciplines into economic analysis of policy outcomes. Her research has been published in *The American Economic Review*, *The Journal of Political Economy*, *The Review of Economics and Statistics* among others.





Lata Gangadharan  
Monash University

Lata Gangadharan is Professor of Economics and holds the Joe Isaac Chair in Business and Economics at Monash University. Her research focuses on understanding and designing appropriate institutions for the environment and for development. She is a Co-Editor of *Experimental Economics* and is a Fellow of the Academy of Social Sciences in Australia.

Lata is an experimental economist, and has conducted lab and field experiments to examine incentives in environmental markets, attitudes towards peer punishment to solve environmental dilemmas, propensity for corruption in different countries, and impact of gender, norms and social identity. Lata's research is published in journals such as the *American Economic Review*, *Science*, *Nature Communications*, *European Economic Review*, *Journal of Public Economics*, *Journal of Environmental Economics and Management* and *American Journal of Agricultural Economics*.



Sir David Hendry  
Oxford University

Sir David Hendry is Professor of Economics at University of Oxford and Director of Program in Economic Modeling, Institute for New Economic Thinking at the Oxford Martin School. Before coming to Oxford in 1982, he was a Professor at London School of Economics and University of California at San Diego. In his research, Professor Hendry investigates the theory and practice of econometric modelling and forecasting in a non-stationary and evolving world, where the model differs from the economy.

David F. Hendry received a Lifetime Achievement Award from the Economic and Social Research Council in 2014, and the Isaac Kerstenetzky Scholarly Achievement Award in 2012. He has been awarded eight Honorary Doctorates, and is one of the World's 200 most cited economists according to the ISI. He was knighted in 2009 for services to social sciences.



## Policy plenary speakers



Gina McCarthy  
Harvard University

McCarthy's 35-year career in public service has been dedicated to environmental protection and public health. As Administrator of the U.S. Environmental Protection Agency under President Barack Obama, she was the nation's leading advocate for common-sense strategies to protect public health and the environment, including efforts to address the challenge of climate change and ensure the protection of the country's water resources. Her leadership led to significant federal, state, and local actions on critical issues related to the environment, economic growth, energy, and transportation. Since leaving Washington, McCarthy has been a fellow at Harvard's Kennedy School of Government's Institute of Politics and the Menschel Senior Leadership Fellow at Harvard's T.H. Chan School of Public Health and joined Pegasus Capital Advisors, a private equity firm, as an operating advisor focused on sustainability and wellness investments. McCarthy now also serves as Professor of the Practice of Public Health in the Department of Environmental Health at Harvard's T.H. Chan School of Public Health and Director of Harvard Chan's Center for Climate, Health and the Global Environment, leading the development of the School's strategy in climate science, health, and sustainability.



Jos Delbeke  
EPSC - European Political Strategy Centre

Jos Delbeke (1954, Belgium) has been the Director-General of the European Commission's DG Climate Action since its creation in 2010. As of 16 March 2018, he was appointed Senior Adviser for Relations with the European University Institute, European Political Strategy Centre, European Commission. He joined the European Commission in 1986. He was very involved in setting the EU's climate and energy targets for 2020 and 2030, and the adoption of the related legislation by the EU Council and Parliament. Mr Delbeke has been a key player in developing EU legislation on cars and fuels, the Emissions Trading System (ETS), air quality, emissions from big industrial installations and chemicals (REACH). As an economist, he always underlined the role of market-based instruments and of cost-benefit analysis in the field of the environment. Mr Delbeke has been responsible for developing Europe's International Climate Change strategy and he was for many years the European Commission's chief negotiator at the UNFCCC Conference of the Parties. He holds a PhD in economics (Louvain, 1986) and worked in 1985 at the International Monetary Fund (Washington DC, USA). As of 2013 he is lecturing at the University of Louvain (Belgium) on European and international environmental policy".



E. Somanathan  
Indian Statistical Institute

E. "Som" Somanathan is Professor in the Economics and Planning Unit of the Indian Statistical Institute in Delhi, and Program Director of CECFEE (Centre for research on the Economics of Climate, Food, Energy and Environment). His research is in the economics of environment and development, microeconomic theory, and evolutionary models of behavior. He received his PhD from Harvard University and has taught at Emory University, the University of Michigan, and Princeton University. He has been Executive Director of SANDEE (South Asian Network for Development and Environmental Economics), a Co-ordinating Lead Author for the Fifth Assessment Report of the IPCC, and is the Editor of *Environment and Development Economics*, a Cambridge University Press journal.



Hua Wang  
Renmin University of China

Dr. Hua Wang is Professor of Environmental and Resource Economics and Dean of the School of Environment and Natural Resources at Renmin University of China (RUC). Dr. Wang holds a Ph.D. in Environmental Management and Policy from the University of North Carolina at Chapel Hill and worked before as Senior Environmental Economist at the World Bank's Development Research Group and Chief Expert in the Policy Research Center of China's Ministry of Environmental Protection (MEP). He conducted extensive research in the areas of economic valuation of nonmarket goods and services, policy instruments for industrial pollution control, global environmental governance, and institutional strategies for sustainable development and ecological civilization, in countries including China, United States, Philippines, Thailand, India, Armenia, Indonesia, Ghana and Ukraine. He published dozens of articles in journals including *Journal of Environmental Economics and Management*, *Journal of Development Economics*, *Ecological Economics*, *Environmental and Resource Economics*, and *China Economic Review*. Dr. Wang is currently Chairman of the Chinese Association of Environmental and Resource Economists (CAERE) and Honorary President of the Professional Association for China's Environment (PACE).



# Instructions for presenters

## Instructions for Paper presenters

### New paper file

If you wish to update your paper file we ask you to do this by May 28. To do this, follow these steps: (a) Sign in to your account at <http://fleximeets.com/wcere2018/>; (b) Click "View Submissions."; (c) Click on the paper you want to edit. (d) On the right, under "Edit submission", click "Upload file" to upload your new file, which will replace your earlier file. Note that if you choose not to upload a new file, your original file will remain.

### Author names

Please check the order of the list of authors for your paper and, if necessary, re-order them so they correspond to the order on your title page. To change the order, repeat steps 1(a), 1(b) and 1(c) above. Then, under "Edit submission", click "Edit Authors". To change the order of the authors, click the symbol to the left of the author number and drag names to reorder them.

### Presentation format

A computer (MS Windows environment) will be available in each room at the conference venue. Please bring your presentation on a USB disk, because connecting of personal laptops might not be possible. Your presentation should be in PowerPoint (.ppt or .pptx) or .pdf format, and should be named with your last name to avoid confusion. Each room is equipped with a laser presenter and a whiteboard (please use with whiteboard pens available in the room only).

### Organization of sessions

Most sessions will be 1 hour and 45 minutes. The time available for regular papers is 25 minutes, distributed as follows: 15 minutes for presentation, 5 minutes for discussant's comments, and 5 minutes for general discussion. Presenters should come to the room 10 minutes prior to the start of the session so that presentations can be copied onto the computer before the session begins. A conference assistant will be available near each room in case of technical difficulties. Please go to the assigned room well in advance of when your session starts to show respect to your colleagues and the audience. Given the tight schedule, we will have to impose a strict time restriction for all paper presentations, so please respect your colleagues and keep to the allotted time.

### Discussants

All presenters of regular papers are called upon to discuss a paper in the same session in which they present. Please note that discussants should raise comments and give advice. They should NOT summarize the paper (the presenter just did that....). A presentation is not expected, but if you want to use a presentation please upload that before the session starts. More detailed comments can be passed on to the presenter after the session, preferably in written form. Please check the conference programme when it becomes available in June to see which paper you are discussing.

### Session chairs

One person in each session is designated as the Session Chair. Chairs should come to the room 10 minutes prior to the start of the session. Chairs should briefly introduce the session and speakers, make sure that the available time is divided equally over each paper to be presented, and guide the discussion from the floor following each presentation. Please check the conference programme when it becomes available in June to see if you are the chair of your session. (Note that in unusual cases when the scheduled chair does not attend, the presenter of the session's actual last paper is expected to take over the role of chair.)

Any questions regarding these instructions and late cancellations should be sent to [programme\\_wcere2018@gu.se](mailto:programme_wcere2018@gu.se).



## Instructions for Poster presenters

### New paper file

If you wish to update your paper file we ask you to do this by May 28. To do this, follow these steps: (a) Sign in to your account at <http://fleximeets.com/wcere2018/>; (b) Click "View Submissions."; (c) Click on the paper you want to edit. (d) On the right, under "Edit submission", click "Upload file" to upload your new file, which will replace your earlier file. Note that if you choose not to upload a new file, your original file will remain.

### Author names

Please check the order of the list of authors for your paper and, if necessary, re-order them so they correspond to the order on your title page. To change the order, repeat steps 1(a), 1(b) and 1(c) above. Then, under "Edit submission", click "Edit Authors". To change the order of the authors, click the symbol to the left of the author number and drag names to reorder them.

### Poster format

Your printed poster should be A0 paper size (84.1cmx118.9cm), vertical/portrait format. Presenters are free to design their poster in whatever way best represents the key points of the paper.

### Display of poster

You are kindly asked to bring your poster to the registration area during registration on Monday, June 25, 16:00 – 20:00, or during registration on Tuesday June 26, 08:00 – 09:00, at the latest. The Conference Secretariat will put up your poster and show you its location. Posters will be displayed for the entire duration of the Conference. You are asked to take down your poster on Friday, June 29, after the end of the scientific sessions, if you wish to take it back with you.

### Poster sessions

There will be poster sessions during the lunches on Wednesday and Thursday (June 27-28). Poster presenters are kindly requested to stand next to their poster during the duration of their poster session, in order to answer any questions.

Any questions regarding these instructions and late cancellations should be sent to [programme\\_wcere2018@gu.se](mailto:programme_wcere2018@gu.se).

## Instructions for Egg-timer presenters

### New paper file

If you wish to update your paper file we ask you to do this by May 28. To do this, follow these steps: (a) Sign in to your account at <http://fleximeets.com/wcere2018/>; (b) Click "View Submissions."; (c) Click on the paper you want to edit. (d) On the right, under "Edit submission", click "Upload file" to upload your new file, which will replace your earlier file. Note that if you choose not to upload a new file, your original file will remain.

### Author names

Please check the order of the list of authors for your paper and, if necessary, re-order them so they correspond to the order on your title page. To change the order, repeat steps 1(a), 1(b) and 1(c) above. Then, under "Edit submission", click "Edit Authors". To change the order of the authors, click the symbol to the left of the author number and drag names to reorder them.

### Presentation format

A computer (MS Windows environment) will be available in each room at the conference venue. Please bring your presentation on a USB disk, because connecting of personal laptops might not be possible. Your presentation should be in PowerPoint (.ppt or .pptx) or .pdf format, and should be named with your last name to avoid confusion. Each room is equipped with a laser presenter and a whiteboard (please use with whiteboard pens available in the room only).

### Organization of sessions

The egg-timer session will be 40 minutes. The time available for egg-timer papers is 10 minutes, distributed as follows: 7 minutes for presentation, and 3 minutes for general discussion. Presenters should come to the room 10 minutes prior to the start of the session so that presentations can be copied onto the computer before the session begins. A conference assistant will be available near each room in case of technical difficulties. Please go to the assigned room well in advance of when your session starts to show respect to your colleagues and the audience. Given the tight schedule, we will have to impose a strict time restriction for all paper presentations, so please respect your colleagues and keep to the allotted time.

### Format

The egg-timer is a new format that we have not tried at the World Congress before. For this reason, here are some important guidelines and hints on how to navigate this format:

- a. Seven minutes is not a long time..... so make sure you can convey the paper within the time constraints;
- b. The presentation should focus only on the key aspects of the paper;
- c. The fewer slides you have the better.
- d. Be prepared for your presentation to be cut-short if you go over time.

### Session chairs

One person in each session is designated as the Session Chair. Chairs should come to the room 10 minutes prior to the start of the session. Chairs should briefly introduce the session and speakers, make sure that the available time is divided equally over each paper to be presented, and guide the discussion from the floor following each presentation. Please check the conference programme when it becomes available in June to see if you are the chair of your session. (Note that in unusual cases when the scheduled chair does not attend, the presenter of the session's actual last paper is expected to take over the role of chair.)

Any questions regarding these instructions and late cancellations should be sent to [programme\\_wcere2018@gu.se](mailto:programme_wcere2018@gu.se).

## Detailed session schedule

For a detailed session schedule, please see the WCERE app or WCERE 2018 website: [www.wcere2018.org](http://www.wcere2018.org)

## Poster sessions

The Poster sessions will take place on Wednesday 27 June and Thursday 28 June at lunch in Room C34. During the two sessions, poster presenters will be available to answer questions related to their research project.

There will be a Prize for the Best Poster. We would like to invite all of you to participate in the grading of posters through a link that will be provided to you on the WCERE app. We will form a small committee from different continents (Europe, Asia, America, Africa) for the evaluation of posters, and your vote will be part of our decision.

We really hope that you will join us in room C34 on Wednesday and/or Thursday during the Congress!

## Awards

26 June – Tuesday (18.00-18.20)

### **AERE Fellows Award**

Venue: Smyrna

27 June – Wednesday (10.45-11.15)

### **European Lifetime Achievement Award in Environmental Economics**

### **European Practitioner Achievement Award in Applying Environmental Economics**

Venue: Smyrna

28 June – Thursday (10.45-11.15)

### **AERE Publication of Enduring Quality**

### **The Ralph C. d'Arge and Allen V. Kneese Award for Outstanding Publication in the *Journal of the Association of Environmental and Resource Economists***

### **EAERE Award for Outstanding Publication in the Journal Environmental and Resource Economics**

### **European Achievement Award for Researchers in Environmental Economics under the Age of Forty**

### **EAERE Award for ERC Grants laureates in the field of environmental and resource economics**

Venue: Smyrna

### **AERE Fellows Award**

In 2005, the AERE Fellows program was instituted to recognize outstanding contributions to the advancement of the profession of environmental and resource economics. Awardees will have demonstrated a significant contribution to the advancement of the profession of environmental and resource economics. A candidate must be living at the time of nomination; membership in AERE is not required.

### **AERE Publication of Enduring Quality**

The Publication of Enduring Quality award is presented by the AERE Board of Directors annually to authors/co-authors for a publication of enduring quality that appeared at least five years prior to the year of the award. Nominated works are evaluated on their seminal nature and enduring value.

### **The Ralph C. d'Arge and Allen V. Kneese Award for Outstanding Publication in the *Journal of the Association of Environmental and Resource Economists***

Each year, AERE selects an outstanding research paper published in the Journal of the Association of Environmental and Resource Economists during the calendar year.

### **European Lifetime Achievement Award in Environmental Economics**

The Award recognises those who have devoted themselves productively and persistently to communicating and enriching our endowment of knowledge in environmental economics.

Eligible candidates are those who: have already retired or are about to retire (It is accepted that for most nominees, the idea of 'retirement' is notional); have been significantly involved in the profession in Europe, e.g. by working here, or contributing regularly to the EAERE annual meetings and/or Summer School; have made an outstanding and sustained contribution to the field, including some combination of scholarship, institutional development and communication/dissemination.

The prize is awarded in even years only if one or more awardees deserving the prize have been nominated.

### **European Practitioner Achievement Award in Applying Environmental Economics**

The Award recognizes Practitioners in the policy or business arena who have made signal contributions in the application of economic ideas.

Eligible candidates are those who work or do substantive business in Europe; have demonstrated courage and skill in successfully achieving the implementation of environmental economics ideas. The prize is awarded in even years only if one or more awardees deserving the prize have been nominated.



**EAERE Award for Outstanding Publication in the Journal Environmental and Resource Economics**

The EAERE Award for Outstanding Publication in the Journal Environmental and Resource Economics (ERE), recognizes exemplary research published in ERE during the past year. Any article published in ERE during the preceding year is eligible for this award. The Award is given annually and announced at the EAERE Annual Conference. Thanks to the kind support of the Journal publisher, Springer, winners are awarded with Springer books vouchers to the value of EUR 550 and a cash amount of EUR 750, to be divided equally between co-authors.

**European Achievement Award for Researchers in Environmental Economics under the Age of Forty**

The European Achievement Award for Researchers in Environmental Economics under the Age of Forty is a recognition given every year to the environmental economist under the age of forty who is judged to have made the most significant contribution to environmental economic thought and knowledge. If there is a significant body of joint work, the prize may be awarded jointly to two recipients provided that both recipients are under the age of forty. The Award is honorary and materially consists of Springer books vouchers to the value of EUR 1.000.

**EAERE Award for ERC Grants laureates in the field of environmental and resource economics**

The “EAERE Award for ERC Grants laureates in the field of environmental and resource economics” intends to recognize the scientific excellence of ERC individual grantees (Starting Grants, Consolidator Grants and Advanced Grants). It aims at welcoming Awardees to the EAERE community by granting them a complimentary membership for the time of their ERC Grants. Awardees are offered to publish regularly outputs of their research projects via the EAERE magazine, communication channels and social networks, so that EAERE members will be constantly updated about the progresses of the results of frontier research in Europe.

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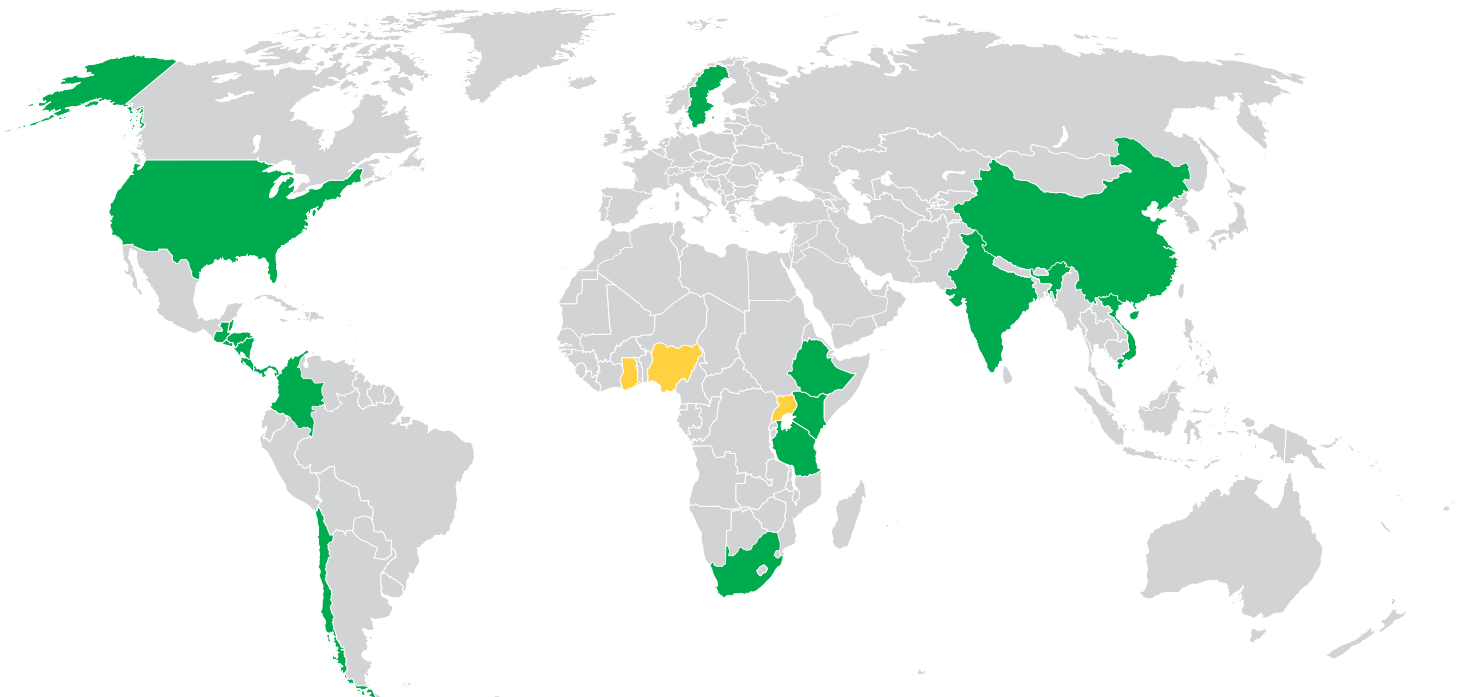
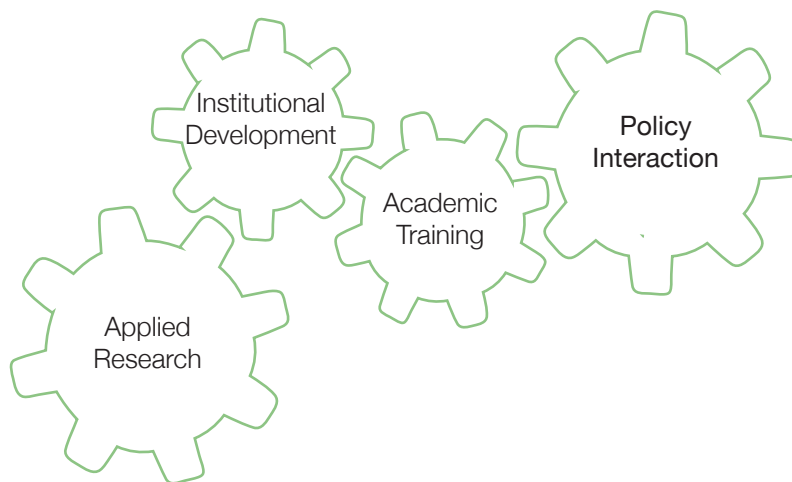
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# Review of Environmental Economics and Policy

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## Review of Environmental Economics and Policy

Volume 12 Issue 1 Winter 2018

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# Association of Environmental and Resource Economists

## AERE AT A GLANCE

The Association of Environmental and Resource Economists (AERE) is an international professional association for economists working on the environment and natural resources. Founded in 1979, AERE continues today with its mission: facilitating the exchange of ideas, stimulating research in environmental and resource economics, and promoting graduate training. AERE has over 1,000 members in more than thirty nations, at academic institutions, the public sector, and in private industry.



Over its history, AERE has sponsored several journals and now owns two: the *Journal of the Association of Environmental and Resource Economists* (JAERE) and the *Review of Environmental Economics and Policy* (REEP), which are published by the University of Chicago Press and Oxford University Press, respectively. Now in its fifth year, JAERE's success as the new flagship research journal for AERE has resulted in its expansion from four to six issues per year beginning in 2019. AERE is also proud of REEP, its policy journal, which ranks in the top 15 of all economics journals in terms of impact factor, and is also highly rated among environmental science journals.

The association offers members a wide range of opportunities to present their research and to interact with professional economists. AERE has co-hosted the World Congress since its inception and hosts an annual Summer Conference each June (except in years when there is a World Congress). In 2019, AERE will hold its summer conference on the shores of beautiful Lake Tahoe in Nevada. In addition to its own conferences, AERE sponsors over 40 sessions at the annual meetings of the American Economics Association/Allied Social Science Associations, the Agricultural & Applied Economics Association, the Eastern Economics Association, the Midwest Economic Association, the Southern Economic Association, and the Western Economic Association International.

AERE membership is based on the calendar year, with one- and three-year individual memberships available (at discounted rates to students and residents of low, lower-middle, and upper-middle income countries). AERE also invites colleges, universities, research institutions, nonprofit organizations, government agencies, and corporations to become members.

AERE website: [www.aere.org](http://www.aere.org)



# Association of Environmental and Resource Economists

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Dr. Don Fullerton, University of Illinois

Dr. Catherine Kling, Iowa State University/Cornell University

Ms. Marilyn M. Voigt, AERE Executive Director (retiring June 30, 2018)

Ms. Tonya Wade, AERE Executive Director (beginning July 1, 2018)



# Association of Environmental and Resource Economists

## 2018 INSTITUTIONAL MEMBERS

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Purdue University - Department of Agricultural Economics  
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## Association of Environmental and Resource Economists

University of California - San Diego, Department of Economics

University of California - Santa Barbara, Environmental Markets Lab (emLab)

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University of Wisconsin-Madison, Department of Agricultural & Applied Economics

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Virginia Tech, Department of Agricultural and Applied Economics

Yale University, School of Forestry & Environmental Studies/Center for Business and the Environment

# AERE Annual Summer Conference

May 30 - 31, 2019

Hyatt Regency at Lake Tahoe  
Incline Village, Nevada

[www.aere.org](http://www.aere.org)



## Association of Environmental and Resource Economists

### 8TH CONGRESS OF THE EAST ASIAN ASSOCIATION OF ENVIRONMENTAL AND RESOURCE ECONOMICS (EAAERE)

Aug 5-Aug7, 2019  
Peking University  
Beijing, China

More detail will be available August  
2018 at <http://eaaere.org/>





The East Asian Association of Environmental and Resource Economics (EAAERE) is an international association dedicated to:

- Encourage academic exchange and communication, as well as other professional activities that are of an interdisciplinary nature relating to the economics, policy and management of the environment and natural resources in Asia;
- Develop a platform for scholars, decision makers and practitioners, to exchange ideas and stimulate innovative research; and
- Offer opportunities for members to present their research findings in workshops and conferences.

Founded in 2010, the EAAERE has currently over 300 members from more than xx nations, coming from academic institutions, public sector and private industries.

Membership of the EAAERE is open to individuals whose profession, training, and/or functions are scientifically related to or involved with environmental and resource economics, and to institutions that operate in the fields connected with the aims of the Association.

Through the Association's journal, Environmental Economics and Policy Studies, (EEPS), the Annual Congress and annual newsletter, the EAAERE provides many platforms for its members to get contact with the newest developments in environmental and resource economics.

Each summer, EAAERE has organized its Annual Congress in a variety of Asian cities, such as Taipei (2015), Fukuoka (2016) and Singapore (2017). EAAERE's 2018 Annual Conference is held within the World Congress of Environmental and Resource Economists (WCERE), which is organized together with the Association of Environmental and Resource Economists (AERE) and the European Association of Environmental and Resource Economists (EAERE).

The Next Annual Conference will be hosted by Peking University of China in early August of 2019.

Further information at [eaaere.org/#](http://eaaere.org/#)





The East Asian Association of Environmental and Resource Economics (EAAERE) is an international association dedicated to:

#### **EAAERE BOARD**

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- [springer.com/librarians](http://springer.com/librarians)

## Environmental Economics and Policy Studies

The Official Journal of the Society for Environmental Economics and Policy Studies / The Official Journal of the East Asian Association of Environmental and Resource Economics

Managing editor: K.-I. Akao

- Provides an international forum for debates among diverse disciplines
- Encourages integration of theoretical and policy studies on environmental issues
- Fosters interdisciplinary works on environmental issues
- Offers reports from Asian countries where environmental destruction has been partly overcome
- Official journal of the Society for Environmental Economics and Policy Studies

As the official journal of the Society for Environmental Economics and Policy Studies and the official journal of the East Asian Association of Environmental and Resource Economics, it provides an international forum for debates among diverse disciplines such as environmental economics, environmental policy studies, and related fields. The main purpose of the journal is twofold: to encourage (1) integration of theoretical studies and policy studies on environmental issues and (2) interdisciplinary works of environmental economics, environmental policy studies, and related fields on environmental issues. The journal also welcomes contributions from any discipline as long as they are consistent with the above stated aims and purposes, and encourages interaction beyond the traditional schools of thought.

On the homepage of [Environmental Economics and Policy Studies at springer.com](http://Environmental Economics and Policy Studies at springer.com) you can

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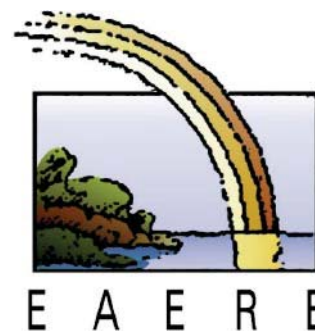


# European Association of Environmental and Resource Economists

[www.eaere.org](http://www.eaere.org)

The European Association of Environmental and Resource Economists (EAERE) is an **international scientific association** whose **aims** are:

- to contribute to the development and application of environmental, climate and resource economics as a science in Europe;
- to encourage and improve collaboration and communication between scholars, researchers, policymakers, students in environmental, climate and resource economics in different European countries;
- to develop and encourage cooperation across universities and research institutions in Europe.



Founded in 1990, EAERE has approximately **1200 members** in over 60 countries from Europe and beyond, from academic and research institutions, international organisations, the public sector, and the business world.

**Membership** is open to **individuals** who by their profession, training and/or function are involved in environmental, climate and resource economics as a science, and to **institutions** operating in fields connected with the aims of the Association.

EAERE provides many **fora for exchanging ideas** relevant to the allocation and management of natural and environmental resources and facilitates a more integrated **dialogue between academia and the policy sector**.

EAERE's **communication outreach portfolio** includes a quarterly Magazine, a monthly Newsletter and an active social media profile (Twitter, Facebook, Instagram,

## Official Journals

EAERE has two official Journals: **Environmental and Resource Economics (ERE)** and **Review of Environmental Economics and Policy (REEP)**.

**ERE's** primary concern is the application of economic theory and methods to environmental issues and problems across a range of spatial and temporal scales up to the global dimension.

**REEP** aims to fill the gap between traditional academic journals and the general interest press by providing a widely accessible yet scholarly source for the latest thinking on environmental and climate economics, and related policy analysis. REEP is published in cooperation with our sister association in North America (AERE).

## Board

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## Institutional members

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EAERE is most grateful to Institutional Members for their support.



# European Association of Environmental and Resource Economists

[www.eaere.org](http://www.eaere.org)

## Annual Conferences

Each summer, EAERE organises its **Annual Conference**, an invaluable opportunity for meeting, exchanging and debating current topics in environmental, climate and resource economics. With approximately 800 individual participants attending from all over the world, international researchers, scholars, economists and students convene to the EAERE Annual Conferences in the spirit of economic discovery, research, analysis and collaboration.

Conferences are held in European countries and unite European participants together with their national and international neighbours. Every four years since 1998, EAERE's Annual Conference is held within the **World Congress of Environmental and Resource Economists**, an international event organised together with AERE. From 2018, the event is co-organised by AERE, EAAERE and EAERE.

Forthcoming events

### NEXT ANNUAL CONFERENCES

26–29 June 2019, Manchester, UK  
*EAERE 24th Annual Conference*

24–27 June 2020, Berlin, Germany  
*EAERE 25th Annual Conference*

### NEXT SCHOOLS

30 June – 06 July 2018, Venice Italy  
*Climate Change Assessment: Economic Models and Evaluation Criteria*  
Co-ordinators: Geir Asheim and Paolo Giovanni Piacquadio

27 January – 1 February 2019, Ascona, Switzerland  
*The Economics of Energy Transition*  
Co-ordinator: Stefan Ambec

30 June – 6 July 2019, Venice, Italy  
*Econometric Approaches for Environmental Policy Evaluation*  
Co-ordinator: Wolfram Schlenker

## Summer and Winter Schools

EAERE offers scholars, researchers and students a rich educational outreach portfolio comprised of its annual **Summer and Winter Schools**.

The broader objective of this series of events is to provide advanced training for young researchers from all over Europe and beyond on environmental, climate and resource economics.



The 24<sup>th</sup> EAERE Annual Conference will take place in Manchester (UK) from the 26<sup>th</sup> to the 29<sup>th</sup> of June 2019. The conference will be hosted by the University of Manchester.

*Local Organising Committee's leaders*

Ada Wossink, Prasnit Banerjee, Alistair Ulph, Ron Chan, Ed Manderson

*Programme Committee Co-Chairs*

Ada Wossink and Michael Finus

### IMPORTANT DATES

15 NOV 18	Paper submissions open
31 JAN 19	Deadline for submission of papers Deadline for policy and thematic sessions proposals Deadline for applications for travel grants
30 APR 19	Deadline for early registrations
8 MAY 19	Deadline by which presenting authors must

European Association of Environmental and Resource Economists (EAERE)

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## Environmental and Resource Economics

The Official Journal of the European Association of Environmental and Resource Economists

Editor-in-Chief: I.J. Bateman

- ▶ **The journal seeks to publish papers which develop and apply new theory and methods for the application of economic principles to aid local to global decision-making in environmental protection, natural resource utilisation and ecosystem management.**

The primary concern of Environmental & Resource Economics is the application of economic theory and methods to environmental issues and problems that require detailed analysis in order to improve management strategies. The contemporary environmental debate is in a constant state of flux, with new or relatively unexplored topics continually emerging. The Journal provides a forum for the further exploration of causes, consequences and policy responses linked to these topics, across a range of spatial and temporal scales up to the global dimension. Areas of particular interest include evaluation and development of instruments of environmental policy; cost-benefit and cost effectiveness analysis; sectoral environmental policy impact analysis; modeling and simulation; institutional arrangements; resource pricing and the valuation of environmental goods; and indicators of environmental quality.

The contents are chosen for their relevance to the process of policy formulation and application.

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- ▶ The Economics Of Climate Change And Sustainability, Guest Editors: Elettra Agliardi and Anastasios Xepapadeas
- ▶ Spatial Dimensions of Stated Preferences, Guest Editors: Robert J. Johnston and Jürgen Meyerhoff
- ▶ Behavioral & Experimental Agri-Environmental Research, Guest Editors: Leah Palm-Forster and Christian Vossler
- ▶ Timing and Delays in Environmental and Resource Economics, Guest Editors: Lucas Bretschger and Sjak Smulders





World Congress of Environmental  
and Resource Economists

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Gothenburg | Sweden 25–29 June 2018