***The 4th IAEE Summer School in China***



**Economics of energy & climate change**

*During*

**July 9–13, 2018**

*In*

**Beijing, China**

**Hosts**

International Association of Energy Economics (IAEE)

School of Economics and Management, Beihang University (BUAA)

**Co-hosts**

Center for Energy and Environmental Policy Research (CEEP)

Committee for Low Carbon Development Management, Chinese Society of Optimization, Overall Planning and Economic Mathematics (CLCDM)

Institutes of Science and Development, Chinese Academy of Sciences (CASISD)

**Venue**

No. 1028 New Main Building of BUAA, Beijing, China

**Speaker**

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| **Michael Grubb** |
| Professor of Energy and Climate Policy at University College London  Founding Editor-in-Chief of Climate Policy  Chair, UK Panel of Technical Experts on Electricity Market Reform |
| U10813P31T1D19215103F46DT20140524112214.jpg  **Paul Drummond**  Senior Research Associate of Energy and Climate Policy at University College London |

**Speaker Introduction**

Prof. Michael Grubb is a Professor of Energy and Climate Policy at University College London (Institute of Sustainable Resources & Energy Institute), the Founding Editor-in-Chief of Climate Policy, and the Chair in UK Panel of Technical Experts on Electricity Market Reform. He worked at Chatham House for ten years, where he led the Energy and Environment programme from 1993-1998. He was a professor at Imperial College London from 1999-2002, and professor at Cambridge University from 2003-2014. During these two periods, he served as the Chief Economist at the Carbon Trust, and the Chair of the international research network/interface organisation Climate Strategies. Meanwhile, he served on the UK Climate Change Committee from 2008, worked at the UK Office of Gas and Electricity Markets (the energy regulator, Ofgem) as Senior Advisor from 2011, and moved to Chair the UK government’s Panel of Technical Experts on Electricity Market Reform from 2016.

He is also the author of eight books, sixty journal research articles, and numerous other publications. He has held many advisory positions with governments, companies and international studies on climate change and energy policy, and has been a Lead Author for several reports of the IPCC on mitigation, including the IPCC Fourth Assessment Report. Especially, his book, Planetary Economics: energy, climate change and the Three Domains of Sustainable Development (Routledge 2014), brought together insights from 25 years of research and implementation of energy and climate policies.

Paul is a Senior Research Associate in Energy & Climate Policy at the UCL Institute of Sustainable Resources. His research interests surround economics and policy for climate change mitigation, energy, resources and air pollution. His current research efforts include various EU-funded projects (in both research and managerial positions) focussing developing pathways for and managing the low-carbon transition in Europe, developing indicators (as co-lead) for the Working Group on Economics and Finance for the Lancet Countdown on Climate Change & Health, and the structure and effects of electricity and wider energy prices. Paul holds a BSc Physical Geography from the University of Reading, and an MSc Environmental Technology from Imperial College London.

**Aim of Course**

The overall aim of the course is to provide students with an integrated and interdisciplinary understanding of energy and climate change issues, including the interplay between different policy approaches, and between national and international energy and climate change policies. Specifically the module should provide knowledge of:

* The empirical fundamentals of global energy resources and systems
* The key challenges facing energy, including its role in development, uncertainties in fossil fuel markets, energy access, and environment
* The essential characteristics of electricity, heat and gas systems and the basics of energy regulation for network industries
* The economic and political economy dimensions of tackling environmental impacts and in particular instruments for trying to decarbonise energy systems
* The underpinning economic rationales for different types of policies, some practical experience and the overall matrix of policy options and packages
* An outline of international negotiations on climate change and the roles of national and international processes and institutions

**Overview of Course**

Economics of energy & climate change

Section 1-Energy Foundations

* Structure and trends of global energy systems
* Evolution of the fossil fuel industries and their environmental impacts including climate change

Section 2-Energy transformations

* Electricity, heat and renewable resources
* The Three Domains structure of energy transitions and the three Pillars of Policy

Section 3-The first two Pillars of Policy

* The first Pillar of Policy: energy efficiency
* The second Pillar of Policy: markets and (carbon) pricing

Section 4-Innovation and transformation

* Third Pillar of policy: strategic investment for innovation and infrastructure
* Integrated Assessment Modelling incorporating induced innovation

Section 5-International and integrated perspectives

* International responses to climate change and the Paris Agreement
* Integrated responses and global prospects

**Content and Schedule**

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| **Registration** | | |
|  | July 8 | whole day |
|  | July 9 | 10:00-12:00 |
| **Classes** | | |
|  | July 9 | 14:00–17:00 |
|  | July 10–12 | 09:00–12:00; 14:00–17:00 |
|  | July 13 | 09:00–11:30 |
| **Closing remark** | | |
|  | July 13 | 11:30–12:00 |

**Cost and Expenditure**

Students: USD 350

Non-students: USD 700

**Certificate**

All participants who successfully finish the courses will receive a certificate signed by the IAEE Executive Director.

**Registration and Payment Methods**

Participants need to send the registration form to Bing-Yue Liu ([bliu1989@163.com](mailto:bliu1989@163.com)) before June 10, 2018. After the selection, we will send confirmation emails to applicants before June 17, 2018.

For international participants, the registration fee needs to be paid to IAEE directly before June 15, 2018.

For Chinese participants, the payment method will be notified in confirmation emails.

**Host University**

The summer school will be held in the New Main Building of BUAA, Beijing, China.



**(The New Main Building of BUAA)**

**Hotel**

There are lots of hotels nearby, if you need help to reserve, please contact local oganizer.

**Contacts**

Bing-Yue Liu

Email: [bliu1989@163.com](mailto:bliu1989@163.com)

Tel: 18201120568

**Registration Form**

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **Name** |  | | | **Gender** | |  | |
| **Student** | Yes □ No □ | | | | | | |
| **Birthday** |  | **Institution** | | |  | | |
| **Phone** |  | | | **Email** | |  | |
| **Address** |  | | | | | **Postcode** |  |
| **Reserve hotel room?** | | | Yes □ No □ | | | | |