

25th Annual IAEE International Conference



Hosted by the University of Aberdeen
Aberdeen Exhibition and Conference Centre, Aberdeen, Scotland
26 – 29 June 2002

who should attend

Lawyers & Accountants
Energy Company
Executives & Managers
Energy Policy Analysts
Governmental Employees in
Energy/Resource Planning
Academics Specialising in
Energy Policy & Analysis
Electricity Pricing and
Market Analysts
Energy Consultants
Energy Company Planning
Economists
Energy Risk and Derivatives
Specialists
Energy Forecasting
Specialists
Oil and Natural Gas
Executives
Energy Regulation
Executives
Electric and Utility
Supervisors
Energy Environmental
Analysts
Geologists and Engineers
Environmentalists
Energy Journalists

In short, anyone with an active interest in the field of energy economics will not want to miss this meeting.

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Innovation and Maturity in Energy Markets: Experience and Prospects

Session Themes and Topics

- **Renewable Energy**
- **The Role of Government**
- **Natural Gas**
- **The Oil Industry**
- **IT and the Energy Sector**

CONFERENCE INFORMATION

Programme Outline
Registration Information
Hotel Booking Information
University of Aberdeen Reception
Gala Dinner at Ardoe House
Scottish Evening
Sponsorship

Aberdeen – “The Oil Capital of Europe”

The conference will be held in Aberdeen, Scotland, the “Oil Capital of Europe” and operations centre for North Sea oil. Major and small oil companies, the Oil Directorate of the UK Department of Trade and Industry and service companies have prominent presences in the city. The timing of the conference ensures that attendees can enjoy daylight for nearly 24 hours per day. June is also generally the warmest month of the year. Aberdeen has many attractions including an ancient University. It is also the ready gateway to magnificent scenery, many castles, ancient and modern, malt whisky distilleries and golf courses.

CONFERENCE SPONSORS

Confirmed Sponsors (as of 31st March 2002)
BP, Shell, Citigroup, Scottish Power, TotalFinaElf, UK Department of Trade and Industry, Aberdeen City Council, Ernst & Young, Conoco

The special conference websites are <http://www.abdn.ac.uk/iaee>

25th Annual IAEE International Conference

Innovation and Maturity in Energy Markets: Experience and Prospects

Dear Colleagues

Energy continues to feature prominently in the news and policy debates round the world. Oil and gas prices continue to fluctuate, markets liberalise with varying success, security of supply has become a dominant issue in many countries, agreement on policies towards climate change remains elusive, and regulation issues remain unresolved. In short in the energy area there is no shortage of live problems. I am very pleased to invite you to the 25th Annual IAEE International Association Conference, Innovation and Maturity in Energy Markets: Experience and Prospects

Five main themes have been identified. These will be addressed in plenary sessions, lunchtime speeches and concurrent sessions. The first theme covers the various forms of Renewable Energy including future scope, barriers to development and appropriate incentives. A second theme covers the Role of Government in energy matters including regulatory issues, (particularly relating to electricity and gas), the design of environmental policies involving energy, taxation, and the geopolitics of energy. A third theme covers the Oil Industry including technology and the resource base, the future of offshore oil and the North Sea in particular, oil price behaviour and prospects, and the prospects for Middle East oil. A fourth theme covers Natural Gas including security of supply issues, the role of gas in power generation, the reserves position, gas prices, and long term contracts. The fifth theme covers IT and The Energy Sector including its impact on costs to date and likely effects in the future, the role of Government in the provision of information, and the effect of IT on market transparency.

Several senior and distinguished speakers have already agreed to participate. At the opening session – Towards a New Global Energy Policy – it is planned to have presentations by Vicky Bailey, Assistant Secretary for Policy and Environmental Affairs, US DOE, Gerald Doucet, Secretary General of the World Energy Council, and leading representatives of the IEA and OPEC. The second

plenary session – The North Sea in a Global Context – will feature presentations by Tony Hayward, Group Vice President and Group Treasurer of BP, and Brian Wilson, the UK Minister for Energy (invited) and Kjell Pedersen, CEO, Petoro. Malcolm Brinded of Shell will speak on the Prospects for the North Sea. Peter Davies of BP will present the new BP Statistical Review of World Energy. A co-plenary session will feature the Middle East and another US Regulation Issues. Other co-plenaries will feature Energy Issues in Asia and Europe. An event which proved highly popular at the Houston IAEE conference – a lunch time session on the Perils of Forecasting (or why we were wrong) – will feature. The final session will highlight the reflections of several past IAEE Presidents on 25 Years of Energy.

Social highlights of the conference include an opening reception on 26th June in Elphinstone Hall at the ancient University of Aberdeen (where it is hoped to feature a Scotch whisky tasting session), a Gala Dinner on 27th June at Ardoe House, a magnificent 19th century baronial mansion with modern ballroom facilities, and a Scottish Evening (food and entertainment) on the 28th. A social programme will also be provided for delegates and partners featuring the local attractions of castles, (some dating back to the Middle Ages), malt whisky distilleries, and golf courses (some of championship status).

I look forward to welcoming you to Aberdeen and to a memorable conference.

Yours sincerely



Professor Alex Kemp
Aberdeen General Conference Chair

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Wednesday, 26th June 2002

14.00-19.00 Registration at Elphinstone Hall, King's College, University of Aberdeen

08.00-12.00 IAEE Strategy Focus Group, Carnegie Room, King's College Conference Centre

12.00-13.00 IAEE Council Lunch, Catherine Gavin Room, King's College Conference Centre

12.00-17.00 IAEE Council Meeting, Carnegie Room, King's College Conference Centre

12.00-17.00 IAEE Council Meeting, Carnegie Room, King's College Conference Centre

[**12.00-16.00** Annual Global Energy Co-ordination Meeting (Chair: Sec-Gen. WEC; CEO's of WPC; IGC; WCI; ICC; WNA/Uranium Institute; IFIEC), Aberdeen Exhibition and Conference Centre, Bridge of Don, Aberdeen]

18.00-20.00 Welcome Reception, Elphinstone Hall, King's College, University of Aberdeen

20.00-22.00 IAEE Council Dinner (invitation only)

[**19.30-22.00** Global Energy Co-ordination Dinner Hosted by BP, location to be confirmed]

Thursday, 27 June 2002

08.00-16.00 Registration at Aberdeen Exhibition and Conference Centre

08.00-09.00 IAEE Affiliate Leaders Meeting, Breakout Room 18

09.00-10.30 Opening Session Auditorium, Hall A – Co-Plenary One – Towards a New Global Energy Policy.

Joint Chairs: IAEE President, Leonard Coburn and BIEE President, Lord Nigel Lawson, BIEE President and Chairman, Central Europe Trust, Rt. Hon Vicky Bailey, Assistant Secretary, US Department of Energy; Mr Robert Priddle, Executive Director, International Energy Agency; Mr Gerald Doucet, Secretary-General, World Energy Council

10.30-11.00 Coffee Break, Hall A

11.00-12.30 Plenary Two, Auditorium, Hall A – The North Sea in a Global Context. Chair: Prof. Alex Kemp, Aberdeen, Mr Tony Hayward, Group Vice-President and Group Treasurer, BP, Rt. Hon. Brian Wilson, UK Minister for Energy*, Mr Kjell Pedersen, CEO, Petoro.

12.30-14.00 Lunch, Hall A –

Chair: Leonard Coburn. Lord Nigel Lawson on Energy Privatisation. Presentation of IAEE Awards.

14.00-15.30 Co-Plenaries Three and Four

Co-Plenary Three, Auditorium, Hall A – Middle East Issues.

Chair: Dr. Herman Franssen, Washington DC, Mr Nader Sultan, CEO Kuwait Petroleum, Dr. Fadel Chalabi, COGES, London, Professor Paul Stevens, University of Dundee, Mr Paul Tempest, Executive Director, Windsor Energy Group, Dr. Fereidun Fesheraki, East-West Center, Honolulu

14.00-15.30 Co-Plenary Four, Room 23 – US Regulation.

Chair: Dr. Michelle Michot Foss, Director, Energy Institute, University of Houston, Dr. Shirley Neff, US Senate Committee on Energy and Natural Resources, Mr Brett Perlman, Texas Public Utilities Commission, Mr Donald Santa, Troutman Sanders

15.30-16.00 Tea Break, Hall A

16.00-17.30 Parallel Sessions One-Five

19.00-22.00 Gala Dinner, Ardoe House Hotel, South Deeside Road, Blairs, Aberdeen. Chair: Leonard Coburn. Presentation of IAEE Awards. Presentations on next IAEE Conferences in Vancouver and Prague

Friday, 28 June 2002

08.00-13.00 Registration at Aberdeen Exhibition and Conference Centre

07.30-09.00 Energy Journal Board of Editors Breakfast, Room 22

07.15-09.00 Breakfast and Session Sponsored by Shell on Sustainable Development in Practice, Hall A

Chair: Tom Botts, Managing Director Shell Expro

08.00-09.00 IAEE European Affiliates Leaders, Room 18

09.00-10.30 Co-Plenaries Five and Six

Co-Plenary Five, Auditorium, Hall A – Electricity Liberalisation. Chair and Lead Speaker: David Newbery, University of Cambridge, UK: Liberalising Electricity Markets.

L Hunt, D Hawdon, P Levine and N Rickman, University of Surrey, UK: Optimal Sliding Scale Regulation: An Application to Regional Electricity Distribution in England and Wales

Reinhard Hass, Vienna University, Austria: Why Liberalisation, Privatisation and Deregulation Will Not Bring About Competition in Electricity

Michael Morrison, University of Cambridge, UK: European Electricity Markets – The State of Competition

Co-Plenary Six, Room 23 – Energy De-Regulation and Liberalisation in Developing Countries. Chair: Paul Stevens, University of Dundee. John Besant-Jones, The World Bank, Peter Pearson, Imperial College, London, Adilson de Oliveira, Instituto de Economica, UFRJ

Francisco Barnes-Regueiro, McKinsey & Co, Mexico: Energy Transition in Developing Countries: The Case of Mexico

10.30-11.00 Coffee, Hall A

11.00-12.30 Co-Plenaries Seven and Eight

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Co-Plenary Seven, Auditorium, Hall A – Asia. Chair: Hoesung Lee, Seoul. Lead Speakers: Dr. Medjid Kerimov, Minister of Fuel and Energy, Azerbaijan and Robert Ebel, CSIS, Washington DC – Russia, The Caspian and Central Asia

Ho Seok Kim and Eui Soon Shin, Yonsei University, Korea: Climate Policy Options and their Implications on Korean Economy

Keun-Wook Paik, RIIA, London: China's Natural Gas Expansion

Ken Koyama, Institute of Energy Economics, Japan: Energy Market Restructuring in Japan: Implications for World Markets

Co-Plenary Eight, Room 23 – Trans-European Issues. Chair: Arild Nystad. Lead Speaker: Jonathon Stern, Imperial College, London and RIIA – European Gas Companies – An Endangered Species in a Booming European Gas Market

Aad Correlje, Delft University, Netherlands: The Re-Regulation of the Dutch Natural Gas System

Hans Auer, Manfred Targner, Nenad Keseric and Reinard Haas, Vienna University, Austria: How to Ensure the Optimal Use of the European Transmission Grid

VA Krukov and KN Milovidov, Russian Academy of Sciences Novosibirsk and Gubkin Academy Moscow: Evolution of the Russian Oil Sector Organizational Structure

John Bower, Oxford Institute for Energy Studies, UK: European Power Transmission Capacity: Do Governments Need to Invest?

12.30-14.00 Lunch, Hall A – Chair: Leonard Coburn. Energy Journal Best Paper Awards: Campbell Watkins. Speakers: Nicola Pedde, Rome: The Geo-politics of Energy; Michael Lynch: The Perils of Forecasting

14.00-15.30 Parallel Sessions Six-Ten

15.30-16.00 Tea break, Hall A

16.00-17.30 Parallel Sessions Eleven-Fifteen

17.30-18.00 IAEE Business Meeting (AGM), Breakout Room 20

19.00-22.00 Scottish Gala Evening, Beach Ballroom, Aberdeen. Chair: Alex Kemp. Master of Ceremonies: Charlie Allan

Saturday 29th June

09.00-09.40 Plenary Nine, Auditorium, Hall A – Realising Global Energy Possibilities. Chair: Peter Pearson, BIEE Chair. Speaker: Malcolm Brinded, Group Managing Director, Royal Dutch/Shell Group

09.50-10.30 Plenary Ten, Auditorium, Hall A – Presentation of the New 2002 BP Annual Statistical Review.

Chair: Paul Tempest, BIEE Vice-President. Speaker: Peter Davies, Vice-President, BP. Copies of the new review will be handed to all attendees

10.30-10.45 Coffee, Hall A

10.45-12.00 Parallel Sessions Sixteen-Twenty One

12.00-12.45 Closing Session, Auditorium, Hall A. Past Presidents – Reflections on Twenty-Five Years of the World of Energy. Chair: Leonard Coburn, IAEE President

12.30-14.00 Prague Committee Meeting, Breakout Room 22

Parallel and Poster Sessions

Thursday 27th June

15.00-17.00

Poster Session One

Authors Present:

Georg Erdmann and Stefan Bokamper, TU, Berlin

Market Prospects of Fuel Cells on the Market for Home Heating

Massimo Santarelli and Sara Macagno, Politecnico de Torino, Italy
A Thermo-economic Analysis of PV-Hydrogen System Feeding the Energy Request of a Residential Building in an Isolated Valley of the Alps

Klaus Skytte, Stine G Jensen, Jacob Lemming, Poul E Morthorst and Ole J Olsen, Riso National Laboratory, Denmark
Experience Curves, Renewable Energy Technologies and Energy Policy in Denmark

Pierre Taillant, CREDEN, France
Competition, Lock in and Development of Technological Variety in the Production of Electricity Photovoltaic Solar Energy

Christine Worlen, Boston University, USA
Experience Curves for Wind Energy Converters

Henrik Jacobsen, Riso National Laboratory, Denmark
Regional Energy Consumption and Income Differences in Denmark

Silvia Pariente-David and Murray Hartley, PA Consulting, France
Electricity Market Models for Integrating European Markets

Silvia Pariente-David, PA Consulting, France
Gas/Electricity Convergence in Liberalising European Energy Markets

Guido Pepermans, KU Leuven, Belgium
Restructuring the Electricity Distribution Sector in Flanders: Some Simulation Results

Vaclovas Miskinis, Lithuanian Energy Institute, Lithuania
Changes in the Lithuanian Power System after Close of the Ignalina Nuclear Power Plant and Measures for Reduction of CO2 Emissions

16.00-17.30 Parallel Sessions One-Five

Parallel Session One Breakout Room 23 – Student Session.

Chair: Chang Youngho, Singapore.

Joint Vice-Chairs: the 2 2002 IAEE Student Council Members: Miroslav Honzik, CTU Prague and Peter Kobos, Rensselaer Polytechnic Institute, Albuquerque

Chang Youngho, National University, Singapore
Oil Price Fluctuations and Chinese Economy

Atif Raja, Power Planning Association, UK
What is the Role of Natural Gas in Power Generation?

Rodolfo Torres, Federal University of the Rio de Janeiro, Brazil
Investment Coordination and Competition Policy in the Natural Gas Industry: Issues to the Brazilian Case

Alberto E Baltierra, Tanya M Coronado and Joel H Santoyo, IFP School & University of Paris IX-Dauphine, National Autonomous University of Mexico & Mexican Petroleum Institute
Convergence of Natural Gas and Electricity Use in Mexico: Which Opportunities to Improve Energy Efficiency?

Malika Saidkhodjaeva, International Business School, Uzbekistan
Uzbekistan: a new Place: IT and Energy World Network?

Parallel Session Two Room 22 – Renewables One.

Chair: Elizabeth Marshall, UK

Paul H Suding, CTZ, China
Possibilities and Limits of Renewable Energies in Rural Areas of Developing Countries

Ulf Hansen, Rostock University, Germany
Biomass: Going up in Smoke?

Philippe Menanteau, Dominique Finon and Marie-Laure Lamy, IEPE, France
Price-based Versus Quantity-based Approaches for Stimulating the Development of Renewable Electricity: New Insights in an Old Debate

Toshi Nakata and Ry Kinugasa, Tohoku University, Japan
Analysis of the Impact of Fuel Cell Vehicles on Energy Systems in the Transportation Sector in Japan

Kirsten Bindermann, LMC, London
The Use of Food Crops for the Generation of Renewable Energy

Parallel Session Three Auditorium, Hall A – European Energy Issues.

Chair: J-P Cueille, IFP, France

Christian von Hirschhausen and Andreas Chollet/Berit Meinhart, DIW, Germany
The Perspective of Russian Gas Exports to Western Europe – A Simulation Analysis of Investment and Policy Options

Alex Kemp and Linda Stephen, University of Aberdeen, UK
Whither the UKCS? A Financial Simulation of a Mature Province

Ivan Benes, Czech Association for Energy Economics, Czech Republic
Study of the Strategic Safety of the Energy Supply Systems in the Czech Republic

Thomas Unger and Filip Johnsson, Chalmers University of Technology, Sweden
Benefits and Risks Associated with Extended Gas Transmission Capacity in the Nordic Countries

J. Schleich and Wolfgang Eichhammer and Frank Gagelmann and J Chesshire, (1 & 2) Fraunhofer Institute Systems & Innovation Research, Germany, UFZ Centre for Environmental Research, Germany, SPRU, UK
Reasons and Perspectives for Emission Reductions in Germany and the UK

Parallel Session Four Room 18 – Climate Change.

Chair: Adrian Gault, DTI, UK.

Roy Boyd and ME Ibarraran, Ohio University, USA
El Calor Del Sur: Economic Impact of Climate Change Mitigation Policies for Mexico

Akira Maeda, Keio University, Japan
Emissions Trading with Emissions Abatement Rigidity: Theory and Policy Implications

Andras Fazekas, Hungarian Power Companies, Hungary
Calculation of CO2 Emissions Reduction by Co-Generation in Hungary Precise of Calculations Method

N Jestin-Fleury, CGP, France
The Ways of Forecasting the Greenhouse Gases Emissions

Adriaan Perrels, VATT, Finland
How to Keep Environmental Policies Effective in Liberalised Power Markets?

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Parallel Session Five

Room 20 – International Companies and Industry Issues.

Chair: John Holding, Saudi Arabian Texaco

Marie, Fagan,
IHRDC, USA
The Disappearing Middle Class: Economies of Scale in Exploration and Production

David Nissen, Frank Spadine,
Poten & Partners, USA
The Coming LNG Boom in the Atlantic Basin

Djamila Amimer,
BP, UK
The Use of Multicriteria Decision Making Theory Within the Petroleum Industry

Friday 28th June

14.00-15.30

Poster Session Two.

Authors Present:

Dr. Kurtubi,
Pertamina, Indonesia
The Impact of Asian Economic Crisis on the Price Efficiency of Petroleum Products in Indonesia

Tronde E Olsen and Petter Osmundsen,
Norwegian School of Economics & Business Administration/
Stavanger University, Norway
Risk Management in Offshore Development Projects

Jon M Steineke and Ole AH Engen,
RF Rogaland Research, Norway
Patterns of Control and Communication in the Norwegian Oil and Gas Industry: Towards a More Decentralised Industrial System?

Edmar L F de Almeida, Fabricio Brollo,
Jose V Bomtempo and Ronaldo G Bicalho,
UFRJ, Brazil
The Renewal Of The Gas-To-Liquids Technology: Perspectives and Impacts

Isaac Dyner and Yris Olaya,
Universidad Nacional de Colombia, Colombia
The Dynamic Interaction Between Natural Gas Markets and Stochastic Gas Discoveries

Alberto Elizalde,
IFP School & University Of Paris, France
Natural Gas Use in the Mexican Power Generation Sector: Political, Market and Regulatory Issues

Kazuya Fujime,
IEEJ, Japan
Rational Formation of Natural Gas Price on Asian Market

Shahla Khaleghi,
National Iranian Gas Co, Iran
Optimization of Gas Supply in Iran

Dimitry Popov,
University of Sofia, Bulgaria
First Steps in Natural Gas Market Development in Bulgaria

Miguel EM Udaeta, Luiz CR Galvao,
Claudio E Carvalho and Andre LV Gimenes,
GEPEA, Brazil
Power Production with Natural Gas under the Concept of the Local IRP Application

Carmen Alveal,
IE/UFRJ, Brazil
Mercosul Energy Integration: Asymmetries and Convergencies

Jean-Thomas Bernard,
Universite Laval, Canada
Energy Efficiency Changes for Residential Space Heating in the Province of Quebec from 1989 to 1998

Jeffrey Yunchang Bor,
Chung-Hua Institution for Economic Research, Taiwan
Gross Energy Efficiency Indicator – An Economic Factorization Analysis

Ramunas Gatautis,
Lithuanian Energy Institute, Lithuania
Lithuanian Energy Sector Development and its Environmental Impact

S M Salifou, Gaetan Lafrance
and Gilles Savard,
University Quebec (1 & 2)/
Ecole Polytechnique de Montreal, Canada
Power System Development in West Africa: Optimal Solutions According to Environmental and Economical Issues

Bill Orchard,
Orchard Partners, UK
An Economic Method for Allocation of Cost and Fuel Burn Between Electricity and Heat from Combined Heat and Power. The Effect of Allocation Assumptions on Global CO2 Displacement from CHP

Katrin Ostertag,
Fraunhofer Institute for Systems & Innovations Research, Germany
The Economic Energy Saving Potential of Heat Contracting

Juan Urrieta,
RIC, Mexico
From Local Diet Energy Consumption to Fitness Energy Economy

Palomo Macias Guzman,
National Autonomous University, Mexico
The Mexican Electrical Sector (MES) and Sulphur Dioxide Emission: Basis of a Market for Tradable Emission Permits

Adriaan Perrels and Heikki Kemppe,
VATT, Finland
Balancing Between Taxation and Permit Trade and Between Nuclear Expansion and Power Trade – Feasibility Versus Optimality in Finnish Climate Policy

Claus Huber, Reinhard Haas,
Thomas Faber, Gustav Resch, John Green,
John Twidell and Walter Ruijgrok,
Vienna University, Austria
Promoting Electricity Generation from Renewables Effectively: The Pros and Cons of Feed-In Tariffs and Tradable Quotas

Peter Read,
Massey University, New Zealand
Hybrid Policy Proposal for 2002-2007 and Beyond: Emissions Permit Trading Linked to Project Based Initiatives Through Negotiated Greenhouse Agreements for Allocating Permits Usefully, Thus Building Experience that Cuts Climate Mitigation Costs

14.00-15.30

Parallel Sessions Six to Ten

Parallel Session Six Auditorium, Hall A – Oil Issues.

Chair: Andre Plourde, Canada

David Ryan and Andre Plourde,
University of Alberta, Canada
Thanks for the Memories:
Oil Price Decompositions and Energy Demand Asymmetries

Andrew Pickering,
University of Bristol, UK
Why Linear-Quadratic Models Don't Fit the Oil Industry

Campbell Watkins and MA Adelman,
University of Saudi Arabia/Massachusetts Institute of Technology, USA
"Oil Equivalence": A Recurring Fable"

Paul Leiby, David Bowman
and Donald W Jones, (1 & 3)
Oak Ridge National Laboratory, USA/(2)
University of Tennessee, USA
Improving Energy Security Through an International Cooperative Approach to Emergency Oil Stockpiling

Parallel Session Seven Breakout Room 22 – Natural Gas Issues.

Chair: Jonathon Stern, London

Douwe Kingma, Mark Lijesen
and Machiel Mulder,
CPB, Netherlands
Gas-to-Gas Competition versus Oil-Price Linkage

Hans J Dahl and Petter Osmundsen,
Norwegian University of Science & Technology/Stavanger University, Norway
Cost Structure in Natural Gas Distribution

Michelle Foss and Gurcan Gulen,
University of Houston, USA
Mean Reversion and Volatility in Energy Prices: Implications for Policy

Finn Roar Aune, Rolf Golombek
and AC Kittelsen,
Statistics Norway/Frisch Centre, Norway
Is Natural Gas Environmentally Friendly?

Jostein Skaar,
Norwegian School of Economics, Norway
Market Power and Natural Gas Storage

Parallel Session Eight Room 18 – Sustainable and Unsustainable Development.

Chair: Michael Jefferson, UK

John D Edwards,
University of Colorado, USA
Twenty First Century Energy Transition From Fossil Fuels to Renewable, Non-Polluting Energy Resources

John Aldersey-Williams,
Redfield Consulting Ltd, UK
Why Invest in Uneconomic Renewable Power Generation Technology?

Knut Rosendahl,
Statistics Norway
Cost Effective Environmental Policy: Implications of Induced Technological Change

Catherine Mitchell,
Warwick Business School, UK
Electricity Network Incentives for a Sustainable Energy Future

Bjart Holtsmark,
Statistics Norway
Implementation of the Kyoto Protocol Without the USA – Some Links Between the Markets for Emission Permits and Fossil Fuels

Parallel Session Nine Room 20 – Nuclear and Coal Issues.

Chair: Christopher Anastasi,
British Energy, UK

Mark Lijesen and JBM Mannaerts,
CPB, Netherlands
Welfare Effects of National Nuclear Policies in Europe

Marie-Laure Guillerminet,
Universite Montpellier, France
The Choices of the Regulated Organization According to the Investment in a Marginal Nuclear Equipment

Linda Warell,
Lulea University of Technology, Sweden
Market Integration in the International Coal Industry: An Error Correction Model

Glomsrod Solveig, Yixuan Wang and Taoyuan Wei, Statistics,
Norway/National Bureau of Statistics, China
Coal Cleaning: A Viable Strategy for Reduced Carbon Emissions and Improved Environment

Parallel Session Ten Room 23– New Financial and Market Instruments.

Chair: Neil Atkinson

Sharon X Lin and Michael N Tamvakis,
City University Business School, UK
Lead-lag Relationship in High Frequency Energy Futures Markets

Tim Mount, Robert Thomas,
Christian Vossler and Ray Zimmerman,
Cornell University, USA
Experimental Evidence about the Persistence of High Prices in a Soft-Cap Auction for Electricity

Perry Sioshansi,
Hendwood Energy Services, USA
Energy Trading and Risk Management After Enron's Collapse

Silvia Pariente-David,
PA Consulting Group, France
The Use of Real Options Techniques for Generation Asset Valuation

Frank Asche and Alte Guttormsen,
Stavanger University/Agricultural University, Norway
Lead Lag Relationships Between Futures and Spot Prices

15.30-17.00

Poster Session Three

Authors Present:

Asbjorn Moseidjord,
Saint Mary's College of California, USA
The New State Role in California's Power Industry

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Rolf Kunneke,
Delft University of Technology, Netherlands
**Liberalization and Technological Change:
Redefining the Need for Public Planning**

Hayashi Taizo,
Fukuoka Institute of Technology, Japan
**Kariwa Town Council Referendum
on MOX Fuel Use and Desirable Course
on Plu-Thermal Operation in Japan**

Reiji Takeishi,
Fujitsu Research Institute, Japan
**The Evaluation of Energy Transportation
Problems Towards Asian Countries**

Kumudu Gunasekera and Adil Najam,
Boston University, USA
**Energy & Security in South Asia:
a Multiple Framework Analysis**

Manfred Kleemann and Armin Kraft,
Research Centre Juelich, Germany
**Energy Saving Potentials in Buildings
Through Information Technologies**

Miguel EM Udaeta, ALV Gimenes,
Ricardo AV Gimenes and Lineu B dos Reis,
Universidade de Sao Paulo, Brazil
**Server for Exclusive Dedication to the
Cyber-Work in Energy Planning Seeking
the Sustainable Development**

Virginie Pignon,
Universite Paris, France
**Congestion Management
in a Regional Power Market**

Edmar L F de Almeida and Carla S e Silva,
UFRJ, Brazil
**Targets and Challenges of the Regulatory
Reform in Brazilian Oil Sector**

Ignacio Contin, Pablo Arocena
and Emilio Huerta,
Universidad Publica de Navarra, Spain
**The Regulation of the Essential Facilities
in the Spanish Energy Sectors**

Massimo Filippini, Silvia Banfi
and Cornelia Luchsinger,
Swiss Federal Institute of Technology,
Switzerland
**Deregulation of the Swiss Electricity Industry:
Implication for the Hydropower Sector**

Machiel Mulder, Douwe Kingma,
Mark Lijesen and Hein Mannaerts,
CPB, Netherlands
**Liberalisation of the Energy Markets:
An Outlook to 2010**

Machiel Mulder,
CPB, Netherlands
**Economic Effects of National Emissions
Trading Schemes: National Dilemmas
Within Global Issues**

16.00-17.30 Parallel Sessions Eleven to Fifteen

**Parallel Session Eleven
Auditorium, Hall A
– The Role of the Government.**

Chair: David Jones, London

Hamilcar Knops and Rudi Hakvoort,
Delft University of Technology, Netherlands
**Public Service Obligations:
High Potential in Electricity Supply?**

Gordon MacKerron,
NERA, London
**What Kinds of Energy "Winners"
Should Government Pick?**

Lynne Kiesling and Adrian Moore,
Northwestern University, USA
**Institutional Change and Contestability:
Promise and Reality in Electricity
Transmission Policy**

Felix Teng and Wu Zongxin,
Tsinghua University, China
**The Role of Responsibility for
Reliability in Power Market**

Robert Borgstrom and V Musatescu,
Nexant Inc, Romania
**The Role of Government in the Transition
to a Market Economy: The Case of Romania
Electric and Gas**

**Parallel Session Twelve
Breakout Room 23 – Increasing Efficiency
of Transport/Energy Use**

**Chair and Lead Speaker:
Lee Schipper, IEA**

Fridtjof Unander, Sohbet Karbuz
and Lee Schipper,
IEA, France
**Manufacturing Energy Use: Impacts from
Changes in Structure and Energy Efficiency**

Paul Leiby, Jonathon Rubin
and David Bowman,
Oak Ridge National Laboratory/University
of Tennessee/ University of Main, USA
**Efficacy of Policies to Promote New Light-
Duty Vehicle Types: Alternative Fuel Vehicles**

David L Green and Janet Hopson,
Oak Ridge National Laboratory/
University of Tennessee, USA
**An Analysis of Alternative Forms of Automotie
Fuel Economy Standards for the United**

Lew Fulton,
IEA, France
**Technology or System? An Assessment
of the Relative Value of Developing New
Bus Systems or Putting New Buses on
Existing Systems in Developing Cities**

David Knutsson and Sven Werner,
Chalmers University, Sweden
**Potential for Natural Gas Based
CHP Generation in Swedish District
Heating Systems**

**Parallel Session Thirteen
Room 18 – OPEC and Related Energy
Security Matters.**

Chair: Feredun Sioshansi, USA

Michael D Smith,
BP, UK
**Is a Rise in OPEC's Share of the Global
Oil Market Inevitable?**

Donald Jones, Paul N Leiby and Inja K Paik,
Oak Ridge National Laboratory/US Dept.
of Energy, USA
**Oil Price Shocks and the Macroeconomy:
What has Been Learned Since 1996**

Wumi Iledare, Allan G Pulsipher
and Williams O Olatubi,
Louisiana State University, USA
**OPEC Oil Quota Criteria and Global
Oil Market Stability: Empirical Evidence,
1982-2003**

James L Smith,
Southern Methodist University, USA
**The Saudi Role in OPEC: Behavioural
Tests of the Cartel Hypothesis**

Mohammad Mazraati
and Golamhosian Hasantash,
IIES, Iran
Euro and Dollar Battle

Robert McRae,
University of Calgary, Canada
Determining Consistent OPEC Oil Prices

**Parallel Session Fourteen
Breakout Room 20, (Hall A)
– Petroleum Taxation.**

Chair: Alex Kemp, Aberdeen

David Laughton, John Campbell,
Stephen Begg and Stephen Black,
University of Alberta, Canada/(2 & 3)
**Decisions! Decisions!/PA Consulting, USA
The Effects of Fiscal Terms on Oil Field
Production and Cost Profile Management**

David Hawdon and Carol Nakhle,
University of Surrey, UK
**The Impact of Petroleum Taxation on Fields
Development in the UK North Sea**

Diderik Lund,
University of Oslo, Norway
Petroleum Tax reform in Scandinavia

Magne Emhjellen and Petter Osmundsen,
Stavanger University College, Norway
**Separate Cash Flow Valuations –
Applications to Offshore Investment
Decisions and Tax Design**

Chi-Yuan Liang,
Academia Sinica, Taiwan
**The Effect of Petroleum Fund Fee on
Oil Prices and the Economy of Taiwan**

**Parallel Session Fifteen
Breakout Room 22
– De-Regulation and Re-Regulation**

Chair: Maureen Crandall, NDU-ICAF

Rod Lemon,
Monmouth College, USA
**Lessons Learned from Natural Gas
Deregulation in North America**

Ferdinand E Banks,
Uppsala Universitet, Sweden
**The Many Faces of European Electric
and Gas Deregulation**

Mark Franklin,
British Energy, UK
**The Market Abuse Licence Condition
on Power Generators: A Case Study
in Energy Regulation**

Hiroshi Asano and Masahito Takahasi,
CRIEPI, Japan
**Conjoint Analysis of Commercial Customers'
Willingness to Accept and Pay for Electricity
Service Reliability and Other Service
Attributes under Retail Competition**

Larry Chow,
Hong Kong Baptist Church, Hong Kong
**Energy De-regulation in Hong Kong:
The Search for a Framework**

Saturday 29th June

10.00-12.00

Poster Session Four

Authors Present:

Mark Lijesen and Hein Mannaerts,
CPB, Netherlands
**Carbon Dioxide Differentiation of Electricity
Taxes: An Assessment of Environmental and
Economic Effects**

Ragnar Tveteras, Frank Asche
and Petter Osmundsen,
Stavanger University College, Norway
**Energy Taxes and the Structure of Natural
Gas Demand in EU**

Francois Boisseleau,
The Netherlands Competition Authority,
Netherlands
**The Relevance of the Relevant Market for
Market Power in Power Markets**

Chang Youngho and Desmond Lee,
National University of Singapore
**Price and Load Volatility in Electricity
Spot Markets**

Isaac Dyer, Alejandro Uribe
and Carlos J Franco,
Universidad Nacional de Colombia, Colombia
**Simulating Repetitive Games
in Electricity Negotiation**

Reza Fathollahzadeh and Deepak Sharma,
University of Technology, Sydney
**Rationale Behind Electricity Industry
Reform in the ASEAN: A Review**

Massimo Filippini
and Michael Kuenzle/Jorg Wild, (1 & 2)
Swiss Federal Institute of Technology,
Sweden/Plaut Consulting AC, Switzerland
**Using Stochastic Frontier Analysis
for the Access Price Regulation of
Electricity Networks**

Tanay M Coronodo and Juan J A Garcia,
National Autonomous University of
Mexico/Universidad Autonoma
Metropolitana-Iztapalapa, Mexico
Non-Technical Electricity Losses in Mexico

Toshihiko Nakata and Shuichi Ashina,
Tohoku University, Japan
**Optimization for the Operators of Electric
Power Generation Taking Account of
Distributed Regional Demand in Japan**

Shonali Pachauri and Massimo Filippini,
Swiss Federal Institutes of Technology,
Switzerland
**Elasticities of Electricity Demand
in Urban Indian Households**

Perry Sioshansi,
Menlo Energy Economics, USA
**US Electricity Restructuring Experience:
Hit and Miss**

Thomas Sundqvist,
Lulea University of Technology, Sweden
**Explaining the Disparity of Electricity
Externality Estimates**

Norman Duncan,
NED & Associates, USA
The Role of Government

Douwe Kingma and Machiel Mulder,
CPB, Netherlands
**Forecasting the Oil Price at Short,
Medium and Long Term**

Helder Pinto,
Federal University of Rio de Janeiro
**Institutional Designs and Regulatory
Reforms in the Energy Industries**

Laura Zoratto,
UFRJ, Brazil
**The Impact of the Thermal Electric
Generation on the Brazilian Trade Balance**

Teimuraz Gochitashvili, Lado Kurdgelasvili,
Georgian International Oil Corporation,
Georgia/University of Delaware, USA
**Comparative Analyses for Russian and
Caspian Natural Gas Export to Europe**

25th Annual IAEE International Conference

Fridtjof Unander, Clas Otto Wene and Richard Loulou, IEA, France/Chalmers University & IEA/McGill University, France
Energy Market Perspectives: Where Can the Development of New Technologies Take Us?

Frank Asche, Petter Osmundsen and R Tveteras, Istavanger University College, Norway
Price Relationships Between Oil, Gas and Power: The UK Experiment

Rolf Golombek and Sverre AC Kittelsen, Frisch Centre, Norway
Long-Run Effects of Liberalising the Energy Markets in Western Europe

F van Oostvoorn, ECN Policy Studies, Netherlands
Impacts of the Liberalisation of Gas and Electricity Market on the Development of CHP in Europe

Massimo Filippini, Nevenka Hrovatin and Jelena Zoric, Federal Institute of Technology, Switzerland/(2 & 3) University of Ljubljana, Slovenia
Regulations of the Slovenian Electricity Distribution Companies: Could the Yardstick Competition be Applied?

V Klevas, E F Dzenajaviciene and R Minkstimas, Lithuania Energy Institute, Lithuania
The Guidelines for Renewable Energy Projects Integration into Regional Development Programmes in Lithuania

Hein Mannaerts and D Kingma, CPB, Netherlands
Green Electricity Production in Liberalised European Markets for Natural Gas and Electricity

Arjen Mulder and Gertjan de Jong, Erasmus University Rotterdam/CMS Derks Star Pousmann, Netherlands
Minimising Risks in Renewable Energy Trading: Fiscal Policy Measures in The Netherlands

Toshihiko Nakata, Alan Lamont and Kazuo Kubo, Tohoku University, Japan
Design for Renewable Energy Systems with Application to Rural Area in Japan

Alberto Elizalde Battierra, Tanya Moreno Coronado and Joel Hernandez Santoyo, IFP School and University of Paris IX-Dauphne/ (2 & 3) National Autonomous University of Mexico, Mexico
Convergence of Natural Gas and Electricity Use in Mexico: Which Opportunities to Improve Energy Efficiency

**10.45-12.00
Parallel Sessions Sixteen to Twenty One**

**Parallel Session 16
Room 20 – IT and the Energy Industries.**

Chair: David Rose, AUPEC, UK

Carol Dahl and Balazs Nagy, Colorado School of Mines, USA
Leading Edge Information Technologies for Energy Industries

Benoit Esnault, University of Paris Dauphine, France
The Impact of New Economy on Energy Value Chains

David Rose, AUPEC, UK
Trends in Information Technology Costs and Investment Levels in the Oil Industry

Malti Goel, Ministry of Science & Technology, India
Prospects of E-Transformation in Indian Energy Sector and the Role of Application Service

Laura Cozzi, IEA, France
Is ICT Going to Spur Energy Demand? A Theoretical and Empirical Analysis

**Parallel Session 17
Breakout Room 22, Electricity.**

Chair: Peter Pearson, London

Reinhard Madlener and Jens Drillisch, CEPE, Switzerland/ University of Cologne, Germany
Tradable Certificate Schemes for Single Renewable Electricity Technologies: The Case of Small Scale Hydro Power Promotion in Austria

Adam Rose, Derek Salvino and Shu-Yi Liao, (1 & 2) The Pennsylvania State University/ California Energy Commission, USA
Regional Economic Impacts of Electricity Service Interruptions in California: A Computable General Equilibrium Analysis

Paule Stephenson and S Hurdubetiu, Kingston University UK/ANRE, Romania
Hydroelectric Power and Electricity Market Design – Strategic Issues

Derek Bunn, London Business School, UK
Price Modelling and Forecasting with the New Electricity Trading Arrangements of England and Wales

Joseph Doucet and Andrew N Kleit, University of Alberta, Canada/The Pennsylvania State University, USA
Metering in Electricity Markets: When is More Better?

**Parallel Session 18
Auditorium, Hall A
– The Macro-Economics of Energy.**

Chair: Inje Paik

Joy Dunkerley, Consultant:
Energy Policy and Economic Development: Challenges and Responses

Philip Andrews-Speed, Xuanli Liao and Roland Dannreuther, (1 & 2) University of Dundee, UK/ University of Edinburgh, UK
China's Search for Energy Security: Where Energy Policy and Foreign Policy Meet

Willem van Groenendaal, Tilburn University, Netherlands
Iran's Fuel Mix in Perspective

Hanan Nugroho and Tetsuo Tezuka, Kyoto University, Japan
Fossil Fuel Export and the Indonesian Macroeconomic Adjustment

Mitali Das Gupta and Joyashree Roy, Jadavpur University, India
Understanding the Changing Economic Policy and the Energy Consumption Pattern in India

**Parallel Session 19
Breakout Room 18
– Market Forces in the EU.**

**Chair: Benjamin Hobbs/
Frits van Oostvoorn**

Eirik Amundsen and Lars Bergman, University of Bergen, Norway/Stockholm School of Economics, Sweden
Renewable Energy, Green Certificates and Market Power in the Nordic Power Market

Richard J Gilbert, Karsten Neuhoff and David M Newbery, University of Cambridge, UK
Mediating Market Power in Networks

Olivier Daxhelet and Yves Smears, Electrabel/Universite Catholique de Louvain, Belgium
Cross-Border Trade: A Two-Stage Equilibrium Model of the Florence Regulatory Forum

Ben Hobbs, Fieke Rijkers, Adrian Wals and Frits van Oostvoorn, Energieonderzoek Centrum, Nederlands
Spatial Oligopoly and Transmission Policy in the Benelux Power Market: A Conjectured Supply Function Analysis

Christoph Weber, IER, Germany
Electricity Markets: Coping with Price Risk Through Integrated Bottom-Up and Financial Modelling

**Parallel Session 20
Breakout Room 23 – Renewables (2)**

**Chair: Catherine Mitchell,
University of Warwick, UK**

Philip E Lewis, Harri T Luomala and Matthieu Griffioen, University of Vaasa, Finland/CHN University, Netherlands
Green by Demand – Increasing Business Customers; Demand for Green Energy

Ashish Rana, PR Shukla and Rajesh Nair, (1 & 2) Indian Institute of Management, India/National Institute for Environmental Studies, Japan
Analysis of Long-term Scenarios of Energy Market Reforms and Renewable Technologies

Hugh Outhred, Muriel Watt, Robert Passey and Karel Nolles, The University of New South Wales, Australia
A Review of Australian Initiatives to Support Renewable Energy Generation in the Australian Electricity Industry

Kristina Ek, Lulsa University of Technology, Sweden
Valuing the Environmental Impacts of Renewable Energy: The Case of Swedish Wind Power

Jorg Buddenberg, Energy Agency of Lower Saxony, Germany
Wind Power in Germany – The Offshore Challenge

**Parallel Session 21
Breakout Room A (Hall A)
– Special Technical Session on GHG Price Uncertainty and Energy Project Evaluation**

**Chair:
David Laughton,
University of Alberta, Canada.**

**Co-Presenters:
Rick Hydman, Myles Allen
and Jonathan Koehler,
University of Alberta and CAPP, Canada,
Oxford University, UK and Cambridge
University, UK**

Conference Objective A look ahead at the changing energy landscape and the future role of energy economics across fuels, business segments and geographies.

Session Themes and Topics

Renewable Energy: The pace of development of all forms of renewables. Barriers to development. Technical progress, reduction of costs and government incentives.

The Role of Government: Government regulation in all stages of the energy industries. The impact of environmental policies on energy. Taxation of energy. The evolving geopolitics of energy.

Natural Gas: The problems of gas development at global and regional levels. The determination of prices. The reserves position. The place of natural gas within the power generation sector. Security of Supply.

The Oil Industry: Technology and the resource base. The development of the offshore industry. Taxation. New frontiers. The Future of the North Sea Industry. Oil price developments and market mechanisms.

IT and the Energy Sector: How has the impact of IT developed, or is the revolution over? The place of e-commerce. The provision of information by governments and its role. IT and market transparency. IT and its impact on costs.

Queries to

Professor Alexander G Kemp
University of Aberdeen, Department of Economics
Edward Wright Building, Dunbar Street, Aberdeen AB24 3QY

Tel: +44(0) 1224 272168 Fax: +44(0) 1224 272181
Email: a.g.kemp@abdn.ac.uk

IAEE Best Student Paper Award

IAEE is pleased to offer an award for the **Best Student Paper** on energy economics in 2002.

The award will consist of a \$1000.00 cash prize plus waiver of conference registration fees. To be considered for the IAEE Best Student Paper Award please follow the below guidelines.

- Student must be a member of IAEE in good standing.
- Submit **complete** paper by April 30, 2002 to IAEE Headquarters.
- Paper **must** be original work by the student (at least 50% of work completed by the student seeking award).
- Submit a letter stating that you are a full-time student and are not employed full-time. The letter should briefly describe your energy interests and tell what you hope to accomplish by attending the conference. The letter should also provide the name and contact information of your main faculty supervisor or your department chair. Please also, include a copy of your student identification card.
- Submit a brief letter from a faculty member, preferably your main faculty supervisor, indicating your research interests, the nature of your academic program, and your academic progress. The faculty member should state whether he or she recommends that you be granted the IAEE Best Student Paper Award in 2002.

Complete applications should be submitted to the IAEE Headquarters office no later than April 30, 2002 for consideration. Please mail to:

David L. Williams, Executive Director,
IAEE Headquarters, 28790 Chagrin Blvd.,
Suite 350, Cleveland, OH 44122

Note: The recipient of the \$1000.00 cash prize will receive notification of this award and be presented the award at the IAEE International Conference in Aberdeen, Scotland. This individual will also receive a complimentary registration to attend the meeting. Please note that all travel (ground/air, etc.) and hotel accommodations, meal costs in addition to conference-provided meals, etc., will be the responsibility of the award recipient.

For further questions regarding IAEE's Best Paper Award, please do not hesitate to contact

David Williams at 216-464-2785
or via e-mail at: iaee@iaee.org

Aberdeen IAEE Conference Scholarships available

IAEE is offering a limited number of **student scholarships** to the 25th IAEE International Conference. Any student applying to receive scholarship funds should:

- 1) Submit a letter stating that you are a full-time student and are not employed full-time. The letter should briefly describe your energy interests and tell what you hope to accomplish by attending the conference. The letter should also provide the name and contact information for your main faculty supervisor or your department chair, and should include a copy of your student identification card.
- 2) Submit a brief letter from a faculty member, preferably your main faculty supervisor, indicating your research interests, the nature of your academic program, and your academic progress. The faculty member should state whether he or she recommends that you be awarded the scholarship funds.

IAEE scholarship funds will be used to cover the conference registration fees for the Aberdeen IAEE International Conference. All travel (air/ground) and hotel accommodations, meal costs in addition to conference-provided meals, etc. will be the responsibility of each individual recipient of scholarship funds.

Completed applications should be submitted to IAEE Headquarters office no later than June 5, 2002 for consideration. Please mail to:

David L. Williams, Executive Director,
IAEE, 28790 Chagrin Blvd., Suite 350,
Cleveland, OH 44122.

Students who do not wish to apply for scholarship funds may also attend the conference at the reduced student registration fee. Please respond to item 1) above to qualify for this special reduced registration rate. Please note that IAEE reserves the right to verify student status in accepting reduced registration fees.

If you have any further questions regarding IAEE's scholarship program, please do not hesitate to contact:

David Williams, IAEE Executive Director,
at 216-464-2785 or via e-mail at: iaee@iaee.org

Conference Chair

Professor Alex Kemp, University of Aberdeen

Programme Co-chairs

Paul Tempest, Neil Atkinson

Committee

Arild Nystad, Nystad Management AS
Leonard L. Coburn, US DOE
Paul Stevens, University of Dundee
Paul Horsnell, JP Morgan
Peter Davies, BP
Peter Pearson
Neil Atkinson
Campbell Watkins, Editor, Energy Journal
Hoesung Lee, Council on Energy and Environment, Korea
Michelle Foss, Energy Institute, University of Houston
Jean-Phillipe Cueille, Français du Pétrole
Marianne S Kah, Conoco, Houston
David Williams, IAEE

Future USAA/IAEE Events Annual Conferences

- | | |
|---------------------|--|
| October 6-9, 2002 | 22nd USAA/IAEE North American Conference Vancouver, British Columbia, Canada, Sheraton Wall Centre Hotel |
| June 5-7, 2003 | 26th IAEE International Conference, Prague, Czech Republic, Dorint Don Giovanni Prague Hotel |
| October 19-21, 2003 | 23rd USAAE/IAEE North American Conference, Mexico City, Camino Real Hotel |



For Travel from Asia or Europe to Aberdeen

Northwest will get you there for less! As the official airline, **Northwest/KLM** will offer a special discount for international attendees as follows. For the Aberdeen IAEE Conference, Northwest/KLM will offer a 10% discount off any applicable normal economy, special economy, APEX, Super APEX, World Business Class or any other excursion fare published to Aberdeen. This discount is valid for travel on Northwest/KLM designated flights from Europe and Asia.

Travellers outside of North America should call their local Northwest or KLM office in their city of origin for reservations and fare information. To receive the special IAEE airfare discount you must provide to your travel agent or the Northwest/KLM representative Worldfile # RBACT.

Further, if contacting your local travel agent please make sure that the agent adds the Worldfile # RBACT in the ticket designator box after the fare basis code. Please have the agent enter the fare basis code, then a (/) followed by the ticket designator (NW/KLM Worldfile # RBACT). Also, advise the agent to use your Worldfile number (# RBACT) regardless of the fare purchased. This will again insure that you receive the lowest fare applicable at the time of ticketing.

For Travel from North America to Aberdeen

Northwest will get you there for less! As the official airline, **Northwest/KLM** will offer a special discount in the form of Association Dollars Off Certificates (ADOCS). Based on a round-trip fare, U.S. originating delegates will receive discounts ranging from \$60 to \$200 USD. This certificate (mailed to USA and Canada members only) entitles up to five (5) passengers to a discount off a qualifying published Coach class or Business class fare.

Travellers from USA or Canada should call their local Northwest World Meeting & Incentive Reservations at 1-800-328-2111 to receive the special IAEE airfare discount. Please reference Worldfile # NY121 to receive your airfare discount.

Further, if contacting your local travel agent please make sure that the agent adds the Worldfile # NY121 in the ticket designator box after the fare basis code. Please have the agent enter the fare basis code, then a (/) followed by the ticket designator (NW/KLM Worldfile # NY121). Also, advise the agent to use your Worldfile number (# NY121) regardless of the fare purchased. This will again insure that you receive the lowest fare applicable at the time of ticketing.

As travellers from USA or Canada you may make your own flight reservations directly at Northwest's web site. Please visit www.nwa.com/travel/reser/ to provide your Worldfile # NY121 and book your air travel to the Aberdeen IAEE International Conference. Once in the Northwest booking engine, customers follow the "on-screen instructions to book a flight." When prompted, "Do you have an Electronic Certificate?" please enter # NY121 in the Reference Code Box. Leave the Certificate number prompt blank.

hotel booking form

25th Annual IAEE International Conference

1). DETAILS:

Name: (Title, Forename, Surname) _____

Sharing with: (if applicable) _____

Address: (for correspondence) _____

E-Mail Address: (must provide) _____

Daytime Telephone Number: _____

Fax Number: _____

Arrival Date: _____

Departure Date: _____

Number of Nights: _____

2). ROOM TYPE REQUIRED: (Mark with Cross X)

single (1 person, 1 bed): **double** (2 people, 1 bed): **twin** (2 people, 2 beds):

3). ACCOMMODATION HOTEL DETAILS AND APPLICABLE RATES *

- **Aberdeen Marriott**, 4 Star, Overton Circle, Dyce, Aberdeen, AB21 7AZ, Tel + 44 (0)1224 770011. The Marriott Hotel is located 3 miles from Aberdeen Exhibition and Conference Centre (AECC) and 5 miles from the City Centre.
- **Thistle Aberdeen Airport Hotel**, 4 star, Argyll Road, Dyce, Aberdeen, AB21 0AF, Tel + 44 (0)1224 725252. The Thistle Aberdeen Airport Hotel is located 4 miles from Aberdeen Exhibition and Conference Centre (AECC) and 8 miles from the City Centre.
- **Holiday Inn** (formerly Posthouse Hotel), 3 star, Claymore Drive, Bridge of Don, Aberdeen, AB23 8BL, Tel + 44 0870 400 9046. The Holiday Inn is located next door to the Aberdeen Exhibition and Conference Centre (AECC) and 3 miles from the City Centre.
- **Aberdeen University**, King's Hall, 2 star, College Bounds, Aberdeen, AB24 3TT, Tel + 44 1224 272662.

The University is located 1 mile from both the Aberdeen Exhibition and Conference Centre (AECC) and the City Centre.

* Complimentary Transportation from the Marriott, Thistle Hotels and Aberdeen University to the Conference Centre will be provided. The Holiday Inn is located next door to the Conference Centre.

ACCOMMODATION RATES:

Dates of conference 26, 27 and 28 June. Below are details of rates during the conference and also detailed pre and post conference rates for each hotel.

accommodation available	Marriott Hotel	Thistle Aberdeen Airport Hotel	Holiday Inn (formerly Posthouse Hotel)	Aberdeen University
single rate	£70 per night	£71 per night	£47.50 per night	£28.50 per night
twin/double rate	£42.50 per person	£38.50 per person	£37.50 per person	£40.95 per room per night
pre conference rate	22-25 June: £80 per night (single) £45 per person (twin/double)	23-25 June: £71 per night (single) £38.50 per person (twin/double)	21-23 June: £38 per night (single) £28 per person (twin/double) 24-25 June: £58 per room (single) £37.50 per person (twin/double)	£28.50 per night (single) £40.95 per room per night (dependant on availability)
post conference rate	29 June: £56 per room (single) £36 per person (twin/double)	29 June-4 July: £66 per room (single) £36 per person (twin/double)	29-30 June: £38 per room (single) £38 per person (twin/double)	£28.50 per night (single) £40.95 per room per night (dependant on availability)

4). PREFERRED ACCOMMODATION:

first choice: _____

second choice: _____

third choice: _____

fourth choice: _____

5). SPECIAL REQUIREMENTS:

(e.g.: Non-Smoking) Please note that these requests cannot be guaranteed.

TERMS AND CONDITIONS:

• Aberdeen and Grampian Convention Bureau are receiving all room reservations. Do not make reservations directly with a hotel/university, as they will not be honoured. Complete this form and return via <http://www.abdn.ac.uk/iaee> or fax to +44 (0) 1224 581367 to make your reservation.
• The rates noted above are per person per night for double/twin occupancy and per night for single rooms. They include private facilities with bath and/or shower facilities, full Scottish breakfast and VAT at 17.5% unless otherwise stated.
• Accommodation will be allocated on a first come, first served basis. If your preferred accommodation is not available, your other choices will be taken into consideration in order of preference.
• Aberdeen and Grampian Convention Bureau will send you confirmation of your booking. This will include full details of the hotels postal address, telephone and fax numbers.

• Hotel accounts should be settled in full on departure unless alternative arrangements have been made in advance directly with the hotel concerned.
• Any cancellations should be made in writing through Aberdeen and Grampian Convention Bureau up to 21 days prior to arrival. After this time all amendments/cancellations should be directed to the accommodation provider.
• Bookings made within 21 days prior to arrival should be made directly with the hotels, as outstanding rooms will have been released. Rates quoted within 21 days advance of the conference may be at higher rates. The Conference Organiser recommends that you book your hotel stay as early as possible.
• Aberdeen and Grampian Convention Bureau and IAEE/BIIE will not be held responsible for cancellation charges levied by the hotels, cancellation charges are subject to each hotel's own terms and conditions and are the responsibility of the delegate, not the conference organisers.

6). CREDIT CARD CONFIRMATION to guarantee reservation:

(Visa / MasterCard / American Express / Switch). In the event of cancellation, hotel cancellation charges will apply. Please refer to hotel terms and conditions to follow.

card number: _____

expiry date: _____

switch issue number: _____

name on card: _____

today's date: _____

signature: _____

• No shows at the hotels will be charged for the first nights accommodation. No shows at the University shall be charged for the first 2 nights accommodation. All accommodation booked shall be released.
• If you are unable to arrive on your first night you will be charged for the accommodation. Please contact the hotel/university to advise them that your room will be required for the remainder of the reservation.
• Aberdeen University – cancellations made prior to the 12 June 2002 will incur no cancellation charges. Cancellations notified between 12 – 18 June will be charged for the first nights accommodation. Cancellations on or after 19 June will be subject to 1.5 days cancellation charge, for example if you book a 5 night stay and cancel on or after 19 June the cancellation fee charged will be 1.5 days of the total cost of the accommodation originally booked.

and cancel within 21-10 days the cancellation fee charged will be 60% of the total cost of the accommodation originally booked.
• Thistle Aberdeen Airport Hotel – cancellations made within 21 days prior to the conference will be subject to 1.5 days cancellation charge, for example if you book a 5 night stay and cancel on or after 19 June the cancellation fee charged will be 1.5 days of the total cost of the accommodation originally booked.
• Aberdeen University – cancellations made prior to the 12 June 2002 will incur no cancellation charges. Cancellations notified between 12 – 18 June will be charged for the first nights accommodation. Cancellations on or after 19 June will be subject to 1.5 days cancellation charge, for example if you book a 5 night stay and cancel on or after 19 June the cancellation fee charged will be 1.5 days of the total cost of the accommodation originally booked.

registration form

25th Annual IAEE International Conference

Aberdeen and Grampian Convention Bureau
27 Albyn Place
Aberdeen
AB10 1YL
Tel: + 44 (0)1224 288815
Fax: + 44 (0)1224 581367

Travel Documents

International delegates to the conference are reminded to contact their travel agents or preferred airline regarding entry visas to the UK.

Ground Transportation

From Aberdeen airport to King's Hall, University of Aberdeen, the Holiday Inn (formerly Posthouse Hotel), and Aberdeen Exhibition and Conference Centre takes around 20 minutes by taxi. The fare is around £10. The Airport Thistle Hotel is a short walk from the terminal. The Marriott Hotel is under 10 minutes by taxi from the airport. Complimentary transportation will be provided between the hotels and the Aberdeen Exhibition and Conference Centre and also to and from Ardoe House and the Beach Ballroom.

Registration Form

Innovation and Maturity in Energy Markets: Experience and Prospects

26-29 June 2002 – Aberdeen Exhibition and Conference Centre, Aberdeen, Scotland

REGISTRATION FEES are payable in advance. Payment may be made by mail to: Fiona Flockhart, IAEE Conference Secretariat, Room 104, University of Aberdeen, Regent Walk, Aberdeen AB24 3FX, UK. Fax No. +44 (0) 1224 272576. Email: f.j.flockhart@abdn.ac.uk Cheques should be made payable to University of Aberdeen – IAEE Conference. Alternatively, registration and payment may be made electronically via the special website <http://www.abdn.ac.uk/iaee>

type of registration (check which applies)	received on or before 1 st June £ (incl. VAT @17.5%)	received after 1 st June to 20 th June £ (incl. VAT @17.5%)	received after 20 th June and on site fee £ (incl. VAT @17.5%)
Paper Authors and Session Chairs (deadline 1st June)	270		
IAEE Members <input type="checkbox"/>	345	375	410
Non-members (includes membership) <input type="checkbox"/>	420	450	485
Non-members (without membership) <input type="checkbox"/>	445	475	510
Full time students <input type="checkbox"/>	180	210	220
Guests (meal functions only; no meeting sessions) <input type="checkbox"/>	180	210	220
Proceedings CD-Rom member <input type="checkbox"/>	50	50	50
CD-Rom non-member <input type="checkbox"/>	75	75	75
Student Scholarship Fund Support <input type="checkbox"/>	35	35	35
Total			

Method of Payment:

Cheque (Cheque payable to University of Aberdeen–IAEE Conference)

Credit Card: Visa Master Card Number

Signature _____

Expiry Date: _____

Last Name: _____

First Name: _____

Name for badge: _____

Guest's Name for badge (if any): _____

Business Title: _____

Company/Organisation: _____

Address: _____

City/Country: _____

Post Code/Zip: _____

Telephone: _____

Fax: _____

E-mail: _____

At what hotel will you be staying? _____

Special Requirements: _____

CANCELLATIONS/SUBSTITUTIONS

All cancellations and substitutions must be sent in writing to Pamela Strang, IAEE Conference Secretariat, Room 25, University of Aberdeen, Regent Walk, Aberdeen AB24 3FX, UK. Cancellations received on or before May 26th are subject to a non-refundable £100 administration fee. Cancellations received after May 26th will be honoured, however, no refund will be made. There will be no refunds for no-shows. There is no exception allowed to this policy. Should you be unable to attend, substitutions may be made to transfer your registration to another member of your organisation at any time up to June 20th 2002.

social tours

a) A tour arranged for partners during the conference

Thursday 27 June 2002

Aberdeen City Tour by Coach

For this tour you will be travelling in a comfortable coach and accompanied by an award-winning Tourist Guide. Your route will take you through the bustling city centre with its many elegant granite buildings, followed by a visit to Old Aberdeen, the home of the c15 University where the Chair of Medicine is the oldest in the English-speaking world.

From here you will head for the coast with panoramic views of the North Sea, miles of sandy beach and a fascinating trip round Aberdeen Harbour, one of the most modern ports in Europe. Moving south, your tour now enters its final stages with spectacular views of an intriguing and distinct city skyline, a short drive along the tranquil River Dee and a visit to Duthie Park with superb displays of exotic flowers in the Winter Gardens.

Booking Information:

Timing: 09.30 to 13.00 hrs.

Cost: £15

Pick-up: Conference Centre

Drop-off: Conference hotels

Maximum numbers – 23

Enquiries and Booking: Pam Wells

email: pamwellspj@cs.com

website: www.pamwells.com

b) Post Conference Tour Options

Saturday 29 June 2002

Aberdeen to Crathes Castle

A superb opportunity not to be missed while you spend time with us here in the north east of Scotland, is a visit to Royal Deeside. Combine this with a visit to one of the National Trust for Scotland's excellent properties - Crathes Castle - and you have the recipe for a perfect afternoon.

Home to the Burnett family for four centuries, this c.16th century castle with its fairytale turrets, wonderful interiors, mysterious "Green Lady" ghost and fascinating walled garden has something of interest for everyone. Perhaps you will actually see or even "feel" the presence of the Crathes ghost!

After you have enjoyed exploring the castle with its beautifully laid out gardens, there is much more besides – an exhibition featuring the Burnetts, woodland walks, a shop offering exclusive gifts & souvenirs & the atmospheric restaurant converted from the Old Horsemill.

Your route for this afternoon follows the North and South Deeside Roads with their many glimpses of wonderful, wooded countryside alongside the clear sparkling River Dee. Again you will be accompanied by a "Blue Badge" Scottish Tour Guide.

Booking Information:

Timing: 14.00 to 18.00 hrs.

Pick-up: Conference Centre

Drop-off: Conference hotels

Cost: £16.50

Maximum numbers – 48

Enquiries and Booking: Pam Wells

email: pamwellspj@cs.com

website: www.pamwells.com

International Association of Energy Economics Conference: 26 - 29 June 2002

Sunday 30 June 2002

Fettercairn Distillery & Fasque House

No trip to Scotland is complete without the chance to discover firsthand the fascinating secrets of the distilling process. Join us to see how it all happens at Fettercairn Distillery, in an area known as the Howe of the Mearns. "Howe" is a Scots word meaning hollow and refers to the fertile farming area you will discover to the east of Fettercairn, some 30 miles south of Aberdeen.

At this distillery you will meet the people who make "Old Fettercairn Single Malt Whisky", listen to the story – from 1824 to the present – of the history of life in the Mearns and how farming and whisky production have gone hand-in-hand. Last but not least, you will have the unique opportunity to enjoy a "dram" of Scotland's national drink – often referred to as the "water of life".

From the distillery we move on a short distance to Fasque House, a c19 building set in outstanding countryside. Fasque House is a spectacular example of a Victorian "upstairs downstairs" stately home where almost nothing has been thrown away during the past 150 years. Built in 1809, the house was bought by Sir John, father of the four times UK Prime Minister William Ewart Gladstone who spent much of his early life here. Inside little has changed – not a museum but an unspoilt old family home awaits you!

As you explore this fascinating itinerary, you will be accompanied by an award-winning "Blue Badge" Scottish Tour Guide. Lunch, at your own expense, will be arranged at a local pub between the two visits.

Booking Information:

Timing: 09.30 to 16.00 hrs.

Pick-up/drop-off points: Conference hotels

Cost per person: £22 (plus lunch at own expense)

Maximum numbers – 48

Enquiries and Booking: Pam Wells

email: pamwellspj@cs.com

website: www.pamwells.com

Technical Tour

A conducted site visit of one hour has been arranged to the drilling rig located very close to the Conference Centre. This is a landrig with simulator used for experimental purposes. The tour will take place on Saturday 29th at 14.00 leaving from the entrance hall of the conference centre.

Please inform Fiona Flockhart at
f.j.flockhart@abdn.ac.uk if you wish to attend.