



Transformations

11th International Conference of the
European Society for Ecological Economics 2015



UNIVERSITY OF LEEDS

Chair's Welcome



Dear Colleague

It is my pleasure to welcome you to the 11th International Conference of the European Society for Ecological Economics (ESEE), which is hosted by the University of Leeds, UK on 30 June - 3 July 2015.

ESEE 2015 explores solutions for the transformation to a sustainable society, building on the distinctive contribution of ecological economics, by shining a spotlight on the interdependency of economic activity and natural systems, and identifying options that prioritise human wellbeing within planetary boundaries. The conference contributes to the dissemination of knowledge on these issues, through oral and poster presentations, keynote lectures from prominent scholars, and lively formal and informal discussions.

Under the banner of *Transformations*, the parallel sessions of the conference cover a range of topics including: *Natural resource management; Frontiers in ecosystem services; Valuation, biodiversity and ecosystem services; Current debates on ecosystem services; Degrowth and steady-state economics; Ecological macroeconomics; Social metabolism, resource efficiency, indicators and modelling; Trade and distribution; Environmental justice, conflicts, power; Planetary problems, human welfare/well-being; Cities, supply chains and social movements; and Participation, organisations, business models, behaviour.* These include a number of special sessions on topics covering issues from macroeconomics, finance, trade and monetary policy to power relations, utopias and societal transformation.

The conference is very grateful for support from the Institute and Faculty of Actuaries, who will present their

recent report on *Sustainability and the Financial System*; Leeds City Council, who are hosting a tour of local environmental projects, supported by the University's Professional Services Hub; and Wiley, publishers of the journal *Environmental Policy and Governance*, who are sponsoring the opening reception.

We are also very grateful to the ESEE and the University of Leeds' International Networks and Collaboration team for support to enable 30 international Masters, PhD and early career researchers to attend the pre-conference Summer School. The Summer School participants will develop, and present to the main conference, their ideas on key issues for local and global transformations.

Through these activities, the conference aims to contribute to the European Society for Ecological Economics (ESEE) aims of advancing understanding of the relationships among ecological, social and economic systems for the mutual well-being of nature and people.

The conference also could not have happened without the dedicated work of members of the local organising committee from the Sustainability Research Institute, School of Earth and Environment, School of Geography and Leeds University Business School and Scottish Association for Marine Sciences (SAMS), the professional skills of MEETinLEEDS, the University of Leeds' conference management team, and the University's Professional Services Hub team, and support from the ESEE Board members.

On behalf of the local organising committee,
Dr Tim Foxon, Reader in Sustainability and Innovation,
University of Leeds.

Committees

Organising committee

Tim Foxon, Lina I. Brand, Paul Brockway, Jonathan Busch, Gary Dymski, Giuseppe Fontana, William Goulart da Silva, Rachel Huxley, Jasper Kenter, Jon Lovett, Anthony Lowe, Julia Martin-Ortega, Gordon Mitchell, Corin Nanton, Dan O'Neill, Jouni Paavola, Vicki Parker, Elke Pirgmaier, Olivia Rendon, Marco Sakai, Malcolm Sawyer, Kate Scott, Tom Smith, Julia Steinberger, Alison Suckall.

Scientific committee

Alice Bows-Larkin, Nina Eisenmenger, Katherine Farrell, Marina Fischer-Kowalski, Juha Hiedanpää, Janne Hukkinen, Tim Jackson, Giorgos Kallis, Tatiana Kluvankova-Oravska, Klaus Kubeczko, Markku Lehtonen, Tommaso Luzzati, Erik Nicolas, Gomez Baggethun, Begüm Özkaynak, Unai Pascual, Olivier Petit, Felix Raushcmayer, Irene Ring, Inge Røpke, Lenka Slavikova, Clive Spash, Sigrid Stagl, Arild Vatn, Nuno Videira.

DAY 1: TUESDAY 30 JUNE

12:00 – 20:00

Parkinson
Court

REGISTRATION

14:00 – 17:00

(optional)
Tour of environmental projects
and initiatives in the City of
Leeds. Hosted by
Leeds City Council.
&
Tour of sustainability projects at
University of Leeds
&
Tour of Lilac Housing
Cooperative
*(participants must have
expressed their interest in these events
at the time of on-line registration)*

17:30 – 18:00

Great Hall

OPENING CEREMONY

18:00 – 19:00

Great Hall

**Interdisciplinarity
&
Ecological Economics**

Professor Melissa Leach
Institute of Development Studies, Brighton

Professor Frans Berkhout
Department of Geography
King's College London

Chair: Dr Tim Foxon

19:00 – 21:00

Parkinson Court

OPENING RECEPTION
Drinks reception with buffet and music

Sponsored by Wiley

SESSION KEY

Natural resource management

Current debates on ecosystem
services

Social metabolism, resource
efficiency, indicators and modelling

Planetary problems, human
welfare/well-being

Frontiers in Ecosystem Services

Degrowth and steady-state
economics

Trade and distribution

Cities, supply chains and social
movements

Valuation, biodiversity and
ecosystem services

Ecological macroeconomics

Environmental justice, conflicts,
power

Participation, organisations,
business models, behaviour

Black Text: Discussion or Round
Table

DAY 2: WEDNESDAY 1 JULY

| 09:00 – 10:00 | | 10:30 – 12:00 | | 13:30 – 15:00 | | 16:00 - 17:30 | |
|---|---|---|--|---|--|--|---|
| <p>Great Hall</p> <p>Ecosystem service valuation & provision</p> <p>Ms Emily McKenzie Natural Capital Project, WWF US</p> <p>Professor Arild Vatn NORAGRIC Norwegian University of Life Sciences</p> <p><i>Chair: Dr Jasper Kenter</i></p> <hr/> <p>Rupert Beckett</p> <p>Political Ecology and critical ecological economics</p> <p>Professor Inge Røpke Professor of Ecological Economics, Aalborg University, Copenhagen</p> <p>Professor Julie Nelson Department of Economics, University of Massachusetts, Boston</p> <p><i>Chair: Professor Marina Fischer-Kowalski</i></p> | PB CHEM | Natural resources: management, use and conservation | <p>LUNCH (Parkinson Court)/Informal session w Julie Nelson: <i>Being a female scholar or activist in ecological economics</i> (Rm BW36)</p> | Natural resources: management, use and conservation | <p>POSTER SESSION & COFFEE, PARKINSON COURT</p> | Natural resources: management, use and conservation | <p>19:00 - 22:00</p> <p>CONFERENCE DINNER (Leeds Town Hall)</p> |
| | BW 36 | New approaches to valuing ecosystem services: what can socio-cultural and deliberative methods offer? | | Cultural ecosystem services: Frontiers in theory and practice | | Cultural ecosystem services: Frontiers in theory and practice | |
| | MS 17 | Economics, incentives and institutions for ecosystems and biodiversity | | Economics, incentives and institutions for ecosystems and biodiversity | | Governing Ecosystem Services: Framing, processes, and underlying rationales | |
| | MS 19 | Ecosystem services and natural resources of the north – sustainability, values and trade-offs | | ESEE Early Career Scientists Networker Meeting | | Ecosystem services: debating, valuing, preserving and providing | |
| | MS 10 | Green economy and circular economy | | Concrete utopias, heterotopias, nowtopias and the degrowth transformation | | Panel: Distributional conflict in a post-growth economy | |
| | MS 15 | Macroeconomics, finance, and sustainability | | Financial and monetary reform for sustainability | | Panel: Sustainability and the financial system: An opportunity for research collaboration (IFoA special session) | |
| | GH ALEX | Social metabolism, industrial ecology, and the new industrial revolution | | Social metabolism, industrial ecology, and the new industrial revolution | | New tools for understanding rapid transitions: insights from Exergy and Useful Work Analysis | |
| | BW 37 | Patterns of trade, production, and consumption | | Patterns of trade, production, and consumption | | Patterns of trade, production, and consumption | |
| | GH 09 | Power relations and overcoming vested interests | | Power relations and overcoming vested interests | | Panel: Using Polanyian concepts to bring together sustainability discourses | |
| | MS LT | Panel: Future Earth and Ecological Economics: A dialogue | | Target setting in a resource-constrained world | | Resource use, health and human well-being | |
| BW 216 | The role of social movements in the sustainability revolution | The role of cities and scale in achieving sustainability | Urban Sustainability Transitions: Actors, Resources, Indicators | | | | |
| BW 237 | Business models, organisations, and alternative valuation | Business models, organisations, and alternative valuation | Business models, organisations, and alternative valuation | | | | |

BW - Baines Wing GH - Great Hall MS - Michael Sadler PB - Parkinson Building

DAY 3: THURSDAY 2 JULY

| | 09:00 – 10:30 | 11:00 – 12:30 | 13:45 – 15:15 | 15:45 - 17:15 | |
|------------|---|---|--|--|--|
| PB CHEM | Natural resources: management, use and conservation | <p>Rupert Beckett</p> <p>Degrowth and steady state economics</p> <p>Professor Giorgos Kallis Inst. Environmental Science & Technology, Universitat Autònoma de Barcelona</p> <p>Dr Dan O'Neill School of Earth & Environment, University of Leeds</p> <p><i>Chair: Professor Giuseppe Fontana</i></p> <p>Great Hall</p> <p>Sustaining development – Practitioners' panel</p> <p>Ms Kate Raworth Environmental Change Institute, Oxford University</p> <p>Mr Ronan Palmer Chief Economist, Environment Agency, England</p> <p>Mr Paul Ellis Chief Executive, Ecology Building Society</p> <p>Mr Andy Mace Associate Director, Arup <i>Session Sponsor</i></p> <p><i>Chair: Professor Gary Dymski</i></p> | Natural resources: management, use and conservation (Water@Leeds Special Session) | Natural resources: management, use and conservation (Water@Leeds Special Session) | <p>ESEE SOCIETY MEETING, RUPERT BECKETT LECTURE THEATRE (17:30 – 19:00)</p> <p>EVENING SOCIAL ACTIVITIES (19:30 – 21:30)</p> |
| BW 36 | Cultural ecosystem services: Frontiers in theory and practice | | Cultural ecosystem services: Frontiers in theory and practice | Interrelations between societal, cultural, and economic and political values | |
| MS 17 | PORES – power relations and ecosystems services | | Economics, incentives and institutions for ecosystems and biodiversity | Economics, incentives and institutions for ecosystems and biodiversity | |
| MS 19 | Ecosystem services: debating, valuing, preserving and providing | | Ecosystem services: debating, valuing, preserving and providing | Interrogating Payments for Ecosystem Services on Intrinsic Motivations for Conservation | |
| MS 10 | Panel: Ecological economics perspectives on capitalism, green growth, and degrowth | | Degrowth and SSE: Conceptual issues | Degrowth and SSE: Empirical analysis | |
| MS 15 | Ecological macro-models | | Stock-flow consistent models | Panel: Developing ecological macro-models | |
| GH ALEX | Indicators and modelling approaches | | Indicators and modelling approaches | Indicators and modelling approaches | |
| BW 37 | Distribution, equality, and social justice, including the rural-urban divide | | Distribution, equality, and social justice, including the rural-urban divide | Trade in transformation: Accounting for global resource use | |
| GH 09 | Quantifying patterns of resource use transformations and ecological distribution conflicts. | | Legal Institutions and Ecological Economics | Getting there from here: viable frameworks for planetary problems | |
| MS LT | Degrowth, well-being, social capital and income change | | Resource use, health and human well-being | From incremental to radical transformation: reconciling energy systems with 2°C carbon budgets | |
| BW 216 | Urban Sustainability Transitions: Actors, Resources, Indicators | Developing resilience of systems, businesses and communities | A complex but necessary interplay: complementing intrapersonal and systemic sustainability transitions | | |
| BW 237 | Advancing participatory modelling approaches for sustainability transitions | Knowledge institutionalization and institutionalized knowledge of and for Ecological Economics | Participation and engagement: ecological economics and stakeholder communities | | |

BW - Baines Wing GH - Great Hall MS - Michael Sadler PB - Parkinson Building

DAY 4: FRIDAY 3 JULY

| 09:00 – 10:15 | | 10:45 – 12:15 | | 13:30 – 15:00 | | | |
|---|--|---------------|--|---------------|---|--|--|
| Great Hall | | PB CHEM | Natural resources: management, use and conservation | BW 113 | Transformational change, REDD+ and synergies between climate change mitigation and adaptation | Rupert Beckett | |
| Consumption, Behaviour and Sustainability Professor Sigrid Stagl Vienna University of Economics & Business, Austria Dr Gill Seyfang School of Environmental Sciences, University of East Anglia, UK <i>Chair: Professor Alice Bows-Larkin</i> | | BW 214 | Interrelations between societal, cultural, and economic and political values | | | Faversham 15:30 - 16:30: CLOSING CEREMONY 17:00: Post-Conference Drinks 18:00 - 20:00: Light Buffet Dinner 20:00 - Late: Salsa Lesson and Dancing | |
| | | MS 17 | Economic issues in environmental quality and degradation | | Economic issues in environmental quality and degradation | | |
| | | MS 19 | Building an effective PES scheme for protected areas: aligning insights from different disciplines | | Uncovering the value of Ecosystem Services | | |
| | | MS 10 | The crisis and transition scenarios | | Work and employment beyond growth | | |
| | | MS 15 | Panel: Is full reserve banking desirable to support a shift to a steady-state economy? | LUNCH | Heterodox and ecological economics: Connections and contradictions | | |
| | | BW 36 | Resource efficiency: What are we measuring? | | Product-service systems and transition to a circular economy | | |
| | | BW 37 | Trade in transformation: Accounting for global resource use | | Panel: The political economy of a socio-ecological transformation: the role of actors and institutions | | |
| | | MS BAN | Getting there from here: viable frameworks for planetary problems | | Environmental justice | | |
| | | MS LT | Beyond GDP: increasing the policy value of alternative measures of economic welfare | | Beyond GDP: increasing the policy value of alternative measures of economic welfare | | |
| | | BW 216 | A complex but necessary interplay: complementing intrapersonal and systemic sustainability transitions | | Panel: A complex but necessary interplay: complementing intrapersonal and systemic sustainability transitions | | |
| BW 208 | Changing practices and patterns of human behaviour | | Transformative Science for Social Change: What kind of Science for Sustainability Transformations? | | | | |

BW - Baines Wing GH - Great Hall MS - Michael Sadler PB - Parkinson Building

Poster Presenters

GERD AHLERT: Institute of Economic Structures Research (GWS)
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SANNA AHVENHARJU: University of Turku
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BERND ANNAERT: KU Leuven
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PEDRO BEÇA: CENSE - FCT/UNL
pmbf@fct.unl.pt
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LUIS BERRAQUERO-DÍAZ: Social and Participatory Action Research Group (GISAP), Universidad Pablo de Olavide.
luisberraquero@gmail.com
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JOHANNES BETTIN: University of Göttingen
johannes.bettin@stud.uni-goettingen.de
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SOMYAJIT BHAR: Ashoka Trust for Research in Ecology and the Environment, India
soumyajit.bhar@atree.org
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LINA I. BRAND: University of Leeds
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Exergy and Useful Work Analysis as a Tool for Improved Energy Policy Making: The Case of the Colombian Energy Sector **693**

NATALIA BRZEZINA: KU Leuven
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Conceptual framework for assessing vulnerability of the European food system to shocks and stresses **165**

STEFANO CARATTINI: HEG Genève/Universitat de Barcelona
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JOHANA CARRILLO: School of Tourism and Hotel Management, Universitat Autònoma de Barcelona, Barcelona, Spain
johanacarrillov@gmail.com
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JENNIFER CHAPMAN: University of York
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DAVID COOK: University of Iceland
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INES COSME: CENSE (FCT-UNL)
inescosme.t@gmail.com
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DALIA D'AMATO: University of Helsinki
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Managerial perceptions on corporate impacts and dependencies on ecosystem services: case of international and domestic forestry companies in China **790**

THAIS DINIZ OLIVEIRA: Institute of Technology Sligo
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LEANDRA FATORELLI: University of Leeds
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GIUSEPPE FEOLA: University of Reading
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ANA FONSECA: ICAAM - Instituto de Ciências Agrárias e Ambientais Mediterrânicas
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ERIK GOMEZ-BAGGETHUN: Norwegian Institute for Nature Research (NINA)
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CONCEPCIÓN IGLESIAS: Universitat Politècnica de Catalunya (UPC) - Escola Tècnica Superior d'Arquitectura de Barcelona (ETSAB)
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ANTONIOS KATRIS: Department of Economics, University of Stirling
antonios.katris1@stir.ac.uk
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CHRISTIAN KLIPPERT: ESCP Europe Business School Berlin
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YANG LI: Tsinghua University
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MARIANA MORENA LONG-MOORE: University of São Paulo
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LUKÁŠ LIKAVČAN: Masaryk University
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KRZYSZTOF MACZKA
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CIAN MCMAHON: NUI Galway
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MIRIJAM MOCK: Helmholtz-Centre for Environmental Research - UFZ
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BERNOÛT MOUGENOT: REEDS, Université de Versailles St Quentin-en-Yvelines
benoit.mougenot@uvsq.fr
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IRINA PROKOFIEVA: Forest Sciences Center of Catalonia (CTFC)
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ÁGNES ROBOZ: Corvinus University of Budapest, Department of Environmental Economics and Technology
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BROTOTI ROY: TERI University
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KARIN SCHANES: Vienna University of Economics and Business
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NIKO SCHÄPKE: Leuphana University Lüneburg
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VIVI M. L. STORSLETEN: Bodø Graduate School of Business, University of Nordland, Norway
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MARTA SZKARADKIEWICZ: Wrocław University of Environmental and Life Sciences
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HENDRIK THEINE: Vienna University of Economics and Business
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CAROLINE UPTON: Department of Geography, University of Leicester
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GABRIEL WEBER: Northumbria University
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KEISUKE YOSHIDA: Nagoya University
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Social and Cultural Programme

Tuesday 30th June

Tour of Environment Projects & Initiatives, 14.00 - 17.00 (By advance booking only)

Leeds City Council Environmental Tour departs Parkinson steps at 14.00 returns 17.00
Leeds City Council will be hosting a tour of local environmental projects and initiatives, including Kelda wind turbine and a recycling and energy recovery facility.

University of Leeds Sustainability Projects departs Parkinson steps at 14.00 returns 16.00
Talk and tour of the University's Sustainability and Biodiversity Projects

Lilac Housing Cooperative departs Parkinson steps at 14.30 returns 17.00
Lilac is the UK's first affordable ecological co-housing project, a community of 20 households and a common house, based in West Leeds. Lilac's 3 core concepts are affordability, community and low impact living.

Welcome Reception and Hot Fork Buffet, Parkinson Court 19.00 - 21.00

Wednesday 1st July

Conference Dinner, Leeds City Town Hall 19.00 - 22.00
Leeds Town Hall is a Grade 1 listed building and was built by Cuthbert Brodrick after a competition to build the Town Hall was held in 1852. Regularly hosting a variety of events, the building in the centre of town is a magnificent place to enjoy the Conference Dinner.

Thursday 2nd July

Cycle Powered Cinema Event to be held in The Old Bar of the University of Leeds. A series of short sustainability films will be shown, food and drink available, from 19.30.

Local restaurants sign up in Parkinson Court to join friends and colleagues for dinner in various local restaurants/bars, from 19.30.

Friday 3rd July

Conference party at The Faversham

Why not join colleagues to celebrate the end of a successful conference and network before you make your journey home.

Post Conference Drinks 17.00 - 18.00

Cold Fork Buffet 18.00 - 20.00

Salsa lesson and Dancing 20.00 - Late

Saturday 4th July

By advance booking only. Depart from Parkinson steps at 10.00

Day Trip to Hebden Bridge

Situated an hour away from Leeds, Hebden Bridge sits high up in the picturesque Yorkshire Pennines. It is a popular place for outdoor pursuits and those on the trip will have a chance to spend some time in the countryside and sample some of the local ale.

Day Trip to Saltaire

Saltaire is a Victorian model village by the River Aire and the Leeds-Liverpool Canal. From galleries to gardens, trams and churches, Saltaire has something for all to enjoy.

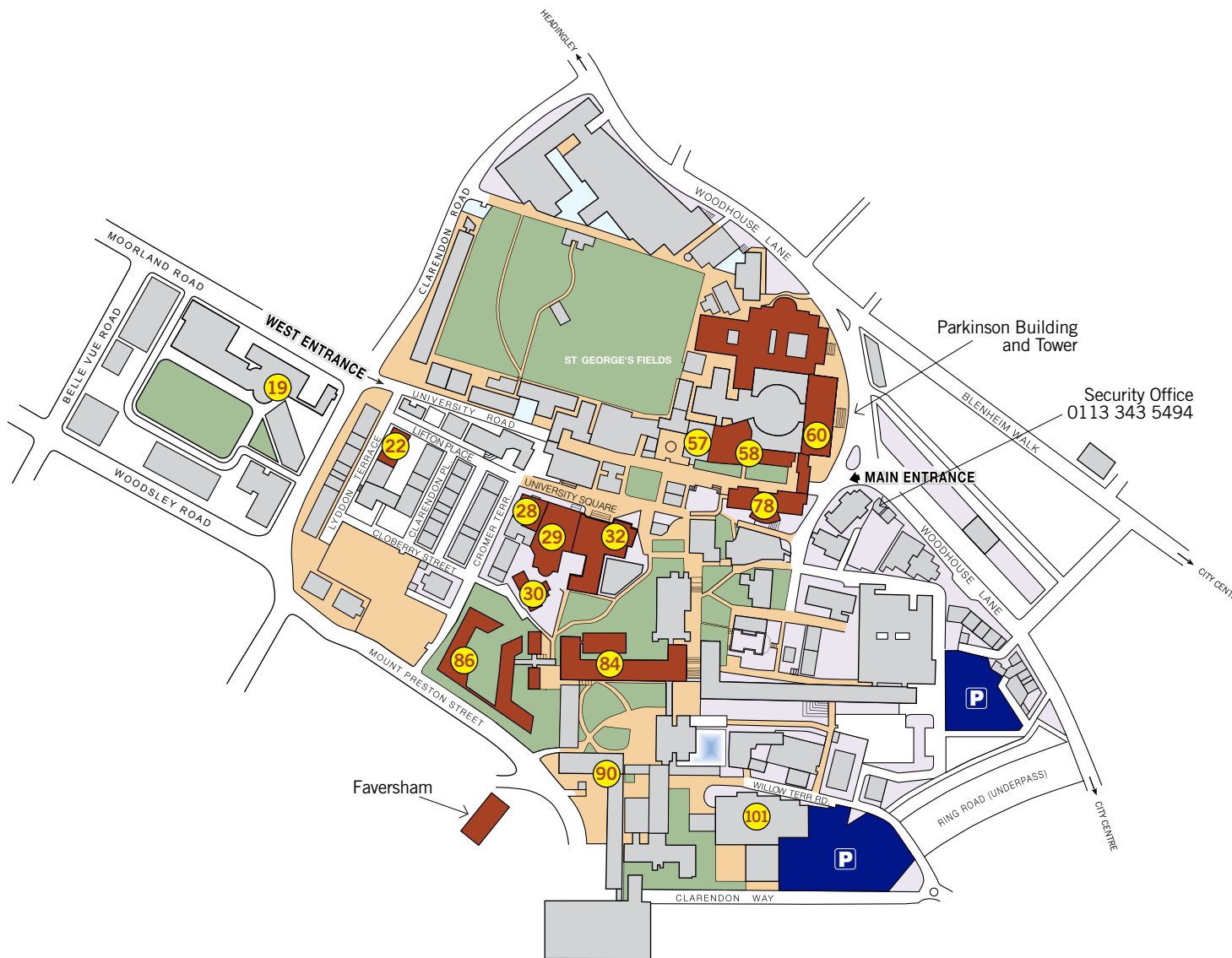
Cultural Activities

Pop-up Art – All conference participants are invited to contribute to a specially commissioned artwork piece in the Parkinson Building. This collaborative piece has a simple premise: to write the word TRANSFORMATIONS using materials which have been collected from the natural environment. Devised by Sue Lawty, Leverhulme Artist in Residence, School of Earth and Environment, University of Leeds.

Soundscape – Working with particular formal aspects of the interior architecture of the Parkinson Building, the piece “meanwhile, elsewhere...” aims to playfully reveal these hidden features and to transform our relationship to this impressive space. Devised by Phill Harding, a West Yorkshire-based artist who works with sound in a primarily visual-arts context.

Dance – The piece “Creation”, to be performed Wednesday night at the conference dinner, conveys a mystical and spiritual connection to Nature through the elements of earth, fire, water, and air. Choreographed and directed by Donald Edwards, founder member of Phoenix Dance Theatre, with costumes by Moira Benoit.

Campus Map



Main venues on campus:

- 19 Leeds University Business School (LUBS)
- 22 Eilersie Hall 2
- 28 University House
- 29 Refectory
- 30 Lyddon Hall
- 32 Leeds University Union (Old Bar)
- 57 Great Hall, including session rooms: GH09 and GHAlex
- 58 Baines Wing, including session rooms: BW36, BW37, BW113, BW114, BW213, BW214 and BW216
- 60 Parkinson Building, Conference help desk, session room: PB Chem
- 78 Michael Sadler, Luggage room, session rooms: MSLT, MS10, MS15, MS16, MS17, MS19, Rupert Beckett Theatre and Banham Theatre
- 84 School of Earth & Environment
- 86 Charles Morris Hall (Dobree House, Story Jameson Court, Whetton House)
- 90 School of Geography
- 101 Sport & Exhibition Centre/The Edge

WILEY



Institute
and Faculty
of Actuaries



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Environmental Policy
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ARUP



with special thanks to the School of Earth and Environment, School of Geography and Leeds University Business School.



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