



ABOUT THE STYRIAN ACADEMY

The STYRIAN ACADEMY is a unique international European life-long learning platform organised by Graz University of Technology in cooperation with Strategic Partners. The STYRIAN ACADEMY addresses business, science and politics as well as excellent students and an interested public.

The unique feature of the STYRIAN ACADEMY is that it combines internationally recognised research across disciplines with entrepreneurial experience to provide participants with the skills and knowledge to develop innovative solutions.

In 2010 and 2011 the STYRIAN ACADEMY is dedicated to the European key topic of future sustainable energy systems. The STYRIAN ACADEMY taps into the know how of top-class scientists and entrepreneurs from the European Sustainable Energy Innovation Alliance (eseia) (www.eseia.eu).

The 2010/2011 STYRIAN ACADEMY provides participants with the necessary knowledge and entrepreneurial skills to turn dwindling fossil resources and the challenge of climate change into a chance. The high level training covers the whole innovation field from sustainable energy resources to efficient infrastructure to rational provision of energy services.

The STYRIAN ACADEMY includes International Business Seminars, International Summer & Winter Schools, Garden Talks & Fireside Chats as well as the STYRIAN ACADEMY 4U, public seminars for an informed audience.



YOUR BENEFIT AS A PARTICIPANT

The STYRIAN ACADEMY offers:

1. An innovative integration of the three sides of the knowledge triangle especially designed for practitioners: cutting edge research from Europe's brightest minds, efficient communication and training methods and innovative business solutions.
2. The possibility for exchange of experience between selected international top lecturers and participants from science, business and politics.
3. Guidance and assistance in the development of solutions by fostering systemic thinking in inter-disciplinary teams.
4. Access to the latest scientific findings presented in an understandable way for experts, practitioners, students, educators and the informed public.
5. The unique possibility for European top students to acquire necessary knowledge and skills to become responsible decision-makers by developing their know how to develop and implement marketable solutions.
6. Insight into best practice examples and an overview of successful innovations and market potential.
7. Business-to-business knowledge transfer, exchange of experience and access to innovative business solutions by top lecturers.

THE STYRIAN ACADEMY'S USP

The **STYRIAN ACADEMY** distinguishes itself by the following unique selling propositions:

- 1. THINKING OUT OF THE BOX:**
Moving participants out of the comfort zone by encouraging cross-linked inter-disciplinary thinking and providing new perspectives beyond entrenched habits for shaping courageous and creative approaches.
- 2. INTER-REGIONAL:** High-quality knowledge transfer by international top experts providing transferable solutions for European regions.
- 3. PEER TO PEER:** Focused exchange of experience and business solutions between key players from business, science and politics on the basis of peer to peer knowledge transfer.
- 4. SYSTEMIC AND INTER-DISCIPLINARY:**
Promotion of a holistic view of technological systems across disciplines rather than the isolated development of components.
- 5. TARGETING PRACTITIONERS OUTSIDE ACADEMIA:** Top scientific information for business partners and decision-makers from business and politics presented in an accessible way.
- 6. FOCUSING ON SKILLS TRAINING:**
Entrepreneurial skills training as well as the training of technical and social competences for the development of innovative solutions and their implementation in the market in highly dedicated inter-disciplinary teams.

4 STYRIAN ACADEMY FORMATS

1. INTERNATIONAL BUSINESS SEMINARS:

The STYRIAN ACADEMY presents two-day International Business Seminars for key stakeholders from business and for regional decision-makers. The purpose of these training sessions is to promote international know how about design and implementation of sustainable energy systems on regional and local levels.

2. GARDEN TALKS & FIRESIDE CHATS:

Informal talks with experts and practitioners providing knowledge updates on trends in sustainable energies. At the same time representatives from business, politics, the regions and venture capitalists have the opportunity to establish contacts to initiate future projects.

3. INTERNATIONAL SUMMER & WINTER SCHOOLS:

Two-week courses for excellent post-graduate students. The aim of the STYRIAN ACADEMY International Summer & Winter Schools in 2010 and 2011 is to offer a comprehensive overview of technical, economical and social developments in the thematic area of sustainable energies.

4. STYRIAN ACADEMY 4U:

The STYRIAN ACADEMY also features discussions that contribute to raising public awareness on sustainable energy solutions in the region of Styria and beyond. These events will be broadcast into the European regions via the internet.

eseia LEAD INITIATIVE: eRETRAIN

The STYRIAN ACADEMY is embedded into the European framework of **10 LEAD INITIATIVES** developed by **THE EUROPEAN SUSTAINABLE ENERGY INNOVATION ALLIANCE (eseia)**.

The Entrepreneurial Education Programme eRETRAIN is part of a central lead initiative on entrepreneurial education in the field of sustainable energy and aims at qualifying key players from business, politics and administration.

Information on the 10 eseia Lead Initiatives:
<http://www.eseia.eu>

eseia MISSION

- By 2012 eseia intends to be active in 10 regions of Europe that will be acting as innovation labs in partnership with regional players, businesses, institutions and society.
- By 2015 eseia will have developed an innovative method to integrate the necessary knowledge development, education and information measures.
- By 2019 the running labs will be converted into implementation at a wider scale in the active regions, running as models for the whole of Europe and globally.

eseia MEMBERS (April 2010)

AUSTRIA, BUSINESS PARTNERS (9)> ACC Austria GmbH **AMSC Windtec GmbH** BRP-Powertrain GmbH & CoKG **Eco World Styria** ELIN Motoren GmbH **IKUS Technologie GmbH** S.O.L.I.D. Solarinstallationen und Design GmbH **Spitzer GesmbH** voestalpine Stahl Donawitz GmbH & CoKG **COMPETENCE CENTERS (1)>** Kompetenzzentrum Holz GmbH (Wood K plus) **POLITICAL PARTNERS (2)>** Amt der Steiermärkischen Landesregierung **LandesEnergieVerein Steiermark** **SCIENCE PARTNERS (8)>** FH Joanneum Gesellschaft mbH **FH OÖ Forschungs & Entwicklungs GmbH** IFZ – Interuniversitäres Forschungszentrum für Technik, Arbeit und Kultur **JOANNEUM RESEARCH Forschungsgesellschaft mbH** Karl-Franzens-Universität Graz **Montanuniversität Leoben** Technische Universität Graz (TU Graz) **Technische Universität Wien (TU Wien)**

BELGIUM> SCIENCE PARTNER (1)> Ghent University **GERMANY> SCIENCE PARTNER (1)>** Technische Universität Hamburg-Harburg (TUHH) and TuTech Innovation GmbH **HUNGARY> SCIENCE PARTNER (2)>** Agricultural Research Institute of the Hungarian Academy of Sciences (HAS) **Research Institute for Technical Physics and Materials Science of the Hungarian Academy of Sciences (HAS)** **IRELAND> SCIENCE PARTNERS (2)>** Dublin Institute of Technology (DIT) **University College Dublin (UCD)/ National University of Ireland, Dublin (NUID)** **ITALY> SCIENCE PARTNER (1)>** Fondazione Bruno Kessler (FBK) **LITHUANIA> SCIENCE PARTNERS (2)>** LEI – Lithuanian Energy Institute **Vilnius Gediminas Technical University (VGTU)** **NORWAY> SCIENCE PARTNERS (2)>** Akershus University College (HiAk) **Sintef Energy Research**

POLAND> SCIENCE PARTNER (1)> Poznań University of Economics **PORTUGAL> SCIENCE PARTNER (2)>** Instituto Politécnico de Leiria (IPL) **LNEG – National Laboratory of Energy and Geology** **ROMANIA> SCIENCE PARTNER (1)>** Transilvania University of Braşov **SLOVAKIA> SCIENCE PARTNERS (4)>** Slovak Academy of Sciences (SAS) – Institute of Technology **Slovak University of Technology in Bratislava (STU)** Technical University of Košice (TUKE) **University of Žilina** **SLOVENIA> SCIENCE PARTNER (1)>** University of Maribor **SPAIN> BUSINESS PARTNER (1)>** ACCIONA **THE NETHERLANDS> SCIENCE PARTNER (1)>** University of Twente **TURKEY> SCIENCE PARTNER (1)>** Mugla University

INFORMATION AND REGISTRATION

Further information
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or by e-mail to

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Rector Hans Sünkel

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STYRIAN ACADEMY FOR SUSTAINABLE ENERGIES

AUFTAKTVERANSTALTUNG: „ENERGIEZUKUNFT IM HERZEN EUROPAS“

Die STYRIAN ACADEMY versammelt internationale Top-Experten für hochwertige Seminare über strategische Entwicklungen im Bereich nachhaltige Energiesysteme in Graz.

Die STYRIAN ACADEMY bietet Vorträge international anerkannter Experten über aktuelle Technologietrends für erneuerbare Ressourcen und deren regionale Umsetzungen.

Die STYRIAN ACADEMY zeigt innovative Lösungen auf, die in der realen Welt von regionalen Kontexten und globalen Märkten umgesetzt werden.

Besonderes Augenmerk wird darauf gelegt, Erfahrungen von praktischen Umsetzungen nachhaltiger Energiesysteme anzubieten.

Die Seminare bieten einen einzigartigen Mix aus peer-to-peer Informationen, unterstützt durch wissenschaftliche und technologische Erkenntnisse am neuesten Stand der Technik.

Unter den angebotenen Formaten sind Garden Talks & Fireside Chats, International Summer & Winter Schools, hochrangige International Business Seminars und die STYRIAN ACADEMY 4U.

STYRIAN ACADEMY FOR SUSTAINABLE ENERGIES

KICK-OFF EVENT: „THE FUTURE OF ENERGIES IN THE HEART OF EUROPE“

The STYRIAN ACADEMY convenes top international experts in Graz for high level seminars about strategic development in the field of sustainable energy systems. The STYRIAN ACADEMY offers lectures from internationally renowned experts regarding current trends in renewable resource based technologies, their regional adaptation as well as ways to implement innovative solutions into the real world of regional contexts and global markets. Particular emphasis will be laid on providing experience from practical implementation of sustainable energy systems. Therefore the seminar offers a unique mix of peer-to-peer information supported by state-of-the-art scientific and technological knowledge.

Among the formats offered by the STYRIAN ACADEMY are Garden Talks & Fireside Chats, Summer & Winter Schools, high level International Business Seminars and the STYRIAN ACADEMY 4U.

Zeit: Dienstag, 15. Juni 2010, 9:30 – 13:00
Ort: AULA der TU Graz, Rechbauerstr. 12, 8010 Graz, Österreich

Vorläufiges Programm

- 09:30 – 10:00** Begrüßung und Einführung in die STYRIAN ACADEMY durch Rektor Hans Sünkel und die Schirmherrin der STYRIAN ACADEMY, Frau Bundesministerin für Wissenschaft und Forschung Beatrix Karl
- 10:00 – 10:30** Eröffnung durch die Landesrätin für Wissenschaft und Forschung, Verkehr und Technik, Kristina Edlinger-Ploder
- 10:30 – 11:00** “Energy Sustainability. A Perspective” by Wangari Muta Maathai, stellvertretende Umweltministerin, Kenia, Afrika (tbc)
- 11:00 – 11:30** „Inseln der Nachhaltigkeit: Europäische Modellregionen, Europäische Allianz für Nachhaltige Energien (eseia)“, Michael Narodoslawsky, TU Graz, AT
- 11:30 – 12:00** Diskussion
- 12:00 – 13:00** Business Lunch auf Einladung von Landesrätin Kristina Edlinger-Ploder

BITTE BEACHTEN SIE

Die Hauptvorträge dieser Veranstaltung sind in Englisch und werden ins Deutsche übersetzt.
Eine Aufzeichnung wird auf der Website <http://styrianacademy.eu> zur Verfügung gestellt.

INFORMATION

Weitere Informationen finden Sie auf <http://styrianacademy.eu>

Time: *Tuesday, 15 June 2010, 9:30 – 13:00*
Venue: *Aula, TU Graz, Rechbauerstr. 12, 8010 Graz, Austria*

Draft Programme

- 09:30 – 10:00** *Welcome and Introduction to the STYRIAN ACADEMY by Rector Hans Sünkel and by Beatrix Karl, Federal Minister of Science and Research*
- 10:00 – 10:30** *Opening by Kristina Edlinger-Ploder, Provincial Minister of Science & Research, Transport & Technology*
- 10:30 – 11:00** *“Energy Sustainability. A Perspective” by Wangari Muta Maathai, Vice Minister for the Environment, Kenia, Africa (tbc)*
- 11:00 – 11:30** *“Islands of Sustainability: European Sustainable Energy Innovation Alliance (eseia) creates European Model Regions” by Michael Narodslawsky, TU Graz, Austria*
- 11:30 – 12:00** *Discussion*
- 12:00 – 13:00** *Business lunch on the invitation of Kristina Edlinger-Ploder, Provincial Minister of Science & Research, Transport & Technology*

PLEASE NOTE

The main lectures of this event are in English and will be translated into German.
Recordings will be available on the website <http://styrianacademy.eu>

INFORMATION

For further information please visit <http://styrianacademy.eu>



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STYRIAN ACADEMY FOR SUSTAINABLE ENERGIES INTERNATIONAL BUSINESS SEMINAR I

This two day seminar will provide an interdisciplinary overview on chances and challenges for regional development linked to the “Energy Wende” from fossil to renewable resources. It will provide participants with information about technological options as well as political, economic and social implications for regions that decide to change their energy system. Particular emphasis will be laid on knowledge and experience from practical implementation of sustainable energy systems in regional contexts as well as strategic perspectives for regions in the light of the increased role of sustainable energy systems in European society.

TARGET GROUP AND TOPICS

This seminar addresses in particular regional development experts and regional decision makers. It will deal with the following topics:

- Regional energy plans and optimal resource allocation
- Regional economic and social impacts of energy systems
- Logistics for regional sustainable energy systems
- Technological challenges for renewable energy systems

INFORMATION AND REGISTRATION

For further information please visit <http://styrianacademy.eu>

COST

€ 700, including lectures, supporting material and meals.
For questions, please contact office@styrianacademy.eu

**INTERNATIONAL BUSINESS SEMINAR I:
“REGIONAL DEVELOPMENT AND SUSTAINABLE ENERGY”**

Time: 6 and 7 July 2010
Venue: Hörsaal FSI 2, Frank-Stronach Institut, Inffeldgasse 11
8010 Graz, Austria

DAY 1: WEDNESDAY, 6 JULY 2010, 08:00 – 18:00

- 08:00 – 08:30** Registration
Morning session
- 08:30 – 09:00** Introduction to STYRIAN ACADEMY by Prof. Michael Narodoslawsky,
TU Graz, Austria; Chemical Engineering and Sustainable Development
- 09:00 – 10:00** “Energy and Sustainable Development: The Dual Challenge of Competitive
Democracy and Multi-level Governance” by William Lafferty,
University of Oslo and SINTEF, Norway; Political Sciences
- 10:00 – 10:30** Workshop led by William Lafferty
- 10:30 – 11:00** *Coffee break*
- 11:00 – 12:00** “Regionally Adapted Sustainable Energy Systems” by Michael Narodoslawsky,
TU Graz, Austria; Chemical Engineering and Sustainable Development
- 12:00 – 12:30** Workshop led by Michael Narodoslawsky
- 12:30 – 13:30** *Lunch*
- Afternoon session*
- 13:30 – 14:30** “Sustainable Energy Solutions in the USA” by Tim Krantz, University of Redlands,
United States of America; Environmental Sciences and Land Use
- 14:30 – 15:00** Workshop led by Tim Krantz
- 15:00 – 15:30** *Coffee break*
- 15:30 – 16:30** “Linking Energy and Regions by Information Technology” by Luigi Crema,
Fondazione Bruno Kessler, Italy; Information Sciences
- 16:30 – 17:00** Workshop led by Luigi Crema
- 17:00 – 18:00** Summary by Michael Narodoslawsky

DAY 2: WEDNESDAY, 7 JULY 2010, 09:00 – 18:00

Morning session

- 09:00 – 10:00** “Regional Resource and Energy Management Policy” by Maarten Arentsen, University of Twente, The Netherlands; Political Sciences
- 10:00 – 10:30** Workshop led by Maarten Arentsen
- 10:30 – 11:00** *Coffee break*
- 11:00 – 12:00** “Innovative Regional Sustainable Energy Systems” by Yoram Krozer, Cartesius Institute, The Netherlands; Environment and Innovation Development
- 12:00 – 12:30** Workshop led by Yoram Krozer
- 12:30 – 13:30** *Lunch*

Afternoon session

- 13:30 – 14:30** “From Waste to Riches – Sustainable Energy Technologies” by Ina Körner, TU Hamburg-Harburg, Germany; Bioconversion and Emission Reduction
- 14:30 – 15:00** Workshop led by Ina Körner
- 15:00 – 15:30** *Coffee break*
- 15:30 – 16:30** “Competition between Renewable and Fossil Energy Technologies” by G. Jan Harmsen, University of Groningen, The Netherlands; Technical Sciences and Sustainable Development
- 16:30 – 17:00** Workshop led by G. Jan Harmsen
- 17:00 – 18:00** Round-up discussion of the seminar, chaired by Michael Narodoslowsky

Evening reception

**Venue: Medienzentrum Steiermark, Grazer Burg, Hofgasse 16
8010 Graz, Austria**

- 19:00 – 22:00** Garden Talk on “Smart e-Mobility” by Klaus Woltron, Owner and President of ADVENGYS GmbH and AG, Austria; followed by informal discussions during dinner on the invitation of the Styrian Government

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STYRIAN ACADEMY FOR SUSTAINABLE ENERGIES INTERNATIONAL BUSINESS SEMINAR II

The STYRIAN ACADEMY convenes top international experts in Graz for a high level seminar about strategic development in the field of sustainable energy systems. This two day seminar will offer lectures from internationally renowned experts regarding current trends in renewable resource based technologies, their regional adaptation as well as ways to implement innovative solutions into the real world of regional contexts and global markets. Particular emphasis will be laid on providing experience from practical implementation of sustainable energy systems. Therefore the seminar offers a unique mix of peer-to-peer information supported by state-of-the-art scientific and technological knowledge.

TARGET GROUP AND TOPICS

This seminar addresses participants from business with an interest in the field of renewable resource based energy technologies.

The topics addressed in this seminar will be in particular:

- Global environmental, economic and social aspects of renewable energy systems
- Technological challenges for renewable energy systems
- Applying energy technologies in regional contexts
- Social and economical framework of implementing renewable energy systems
- Thinking big and small: linking local technologies to global challenges

INFORMATION AND REGISTRATION

For further information please visit <http://styrianacademy.eu>

COST

€ 700, including lectures, supporting material and meals.
For questions, please contact office@styrianacademy.eu

**INTERNATIONAL BUSINESS SEMINAR II:
“REGIONAL ENERGY SYSTEM ADAPTATION”**

Time: 7 and 8 July 2010
Venue: Hörsaal FSI 1, Frank-Stronach Institut, Inffeldgasse 11
8010 Graz, Austria

DAY 1: WEDNESDAY, 7 JULY 2010, 08:00 – 18:30

- 08:00 – 08:30** Registration
Morning session
- 08:30 – 09:00** Introduction to STYRIAN ACADEMY by Prof. Michael Narodoslawsky,
TU Graz, Austria; Chemical Engineering and Sustainable Development
- 09:00 – 10:00** “Perspectives on the Competition between Renewable Energy Technologies
and Conventional Energy Systems” by G. Jan Harmsen, University of Groningen,
The Netherlands; Technical Sciences and Sustainable Development
- 10:00 – 10:30** Workshop led by G. Jan Harmsen
- 10:30 – 11:00** Coffee break
- 11:00 – 12:00** „Wind Power Systems“ by Martin Fischer, AMSC Windtec, Austria;
Chief Executive Officer
- 12:00 – 12:30** Workshop led by Martin Fischer
- 12:30 – 13:30** Lunch
- Afternoon session*
- 13:30 – 14:30** “Good Practices for Regional Sustainable Energy Solutions” by Yoram Krozer,
Cartesius Institute, The Netherlands; Environment and Innovation Development
- 14:30 – 15:00** Workshop led by Yoram Krozer
- 15:00 – 15:30** Coffee break
- 15:30 – 16:30** „Sustainable Hydro-Power“ by Heinz Panholzer, Andritz Hydro GesmbH, Austria
- 16:30 – 17:00** Workshop led by Heinz Panholzer
- 17:00 – 18:00** “Sustainable Energy Technologies based on Biomass and Waste” by Ina Körner,
TU Hamburg Harburg, Germany; Bioconversion and Emission Reduction
- 18:00 – 18:30** Workshop led by Ina Körner

Evening reception

Venue: **Medienzentrum Steiermark, Hofgasse 16, 8010 Graz, Austria**

19:00 – 22:00 Garden Talk on “Smart e-Mobility” by Klaus Woltron, Owner and President of ADVENGYS GmbH and AG, Austria, followed by informal discussions during dinner on the invitation of the Styrian Government

DAY 2: THURSDAY, 8 JULY 2010, 09:00 – 18:00

Morning session

09:00 – 10:00 “Policies for Sustainable Energy System Innovation – the Nordic Experience” by Audun Ruud, SINTEF, Norway; Political Sciences

10:00 – 10:30 Workshop led by Audun Ruud

10:30 – 11:00 Coffee break

11:00 – 12:00 “Regional Resource and Energy Management Policy” by Maarten Arentsen, University of Twente, The Netherlands; Political Sciences

12:00 – 12:30 Workshop led by Maarten Arentsen

12:30 – 13:30 Lunch

Afternoon session

13:30 – 14:30 “Sustainable Energy Solutions in the USA” by Tim Krantz, University of Redlands, United States of America; Environmental Sciences and Land Use

14:30 – 15:00 Workshop led by Tim Krantz

15:00 – 15:30 Coffee break

15:30 – 16:30 “Information Technology for Sustainable Energy Systems” by Luigi Crema, Fondazione Bruno Kessler, Italy; Information Sciences

16:30 – 17:00 “Sustainable Regional Industrial Parks” by Michael Narodoslowsky, TU Graz, Austria; Chemical Engineering and Sustainable Development

17:00 – 17:30 Workshop led by Michael Narodoslowsky

17:30 – 18:00 Round-up discussion of the seminar, chaired by Michael Narodoslowsky

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STYRIAN ACADEMY FOR SUSTAINABLE ENERGIES INTERNATIONAL SUMMER SCHOOL 2010

Providing sustainable energy for a prosperous society will become the paramount challenge for decision makers in the 21st century. Navigating between dwindling fossil resources, increasing pressure on global climate, hazardous nuclear technologies, high investment costs for modernizing the energy system and competition for renewable resources decision makers of the future will have to find ways to support sustainable development of society with innovative energy solutions. The STYRIAN ACADEMY Summer School 2010 will provide a selected number of students with the knowledge to become decision makers for the 21st century in the key field of regional sustainable energy systems.

TOPICS

The Summer School 2010 will provide lectures by internationally renowned experts covering sustainable energy systems in all their technical, economical, political and social aspects. The range of lectures extends from the societal and political challenges of implementing sustainable energy systems to providing state of the art information about technological aspects to the competitive situation of alternative energies versus fossil resources to various aspects of implementing alternative energy systems in regional contexts. Particular emphasis will be laid on providing state of the art practical experiences from different countries. Participants will thereby not only gain a broad interdisciplinary spectrum of knowledge but also a unique insight in the intricacies of practical implementation of sustainable energy systems on the regional level.

STRUCTURE

Besides lectures and ample time to discuss with the international experts students will visit practical examples of regional energy systems based on renewable resources ranging from biodiesel plants to biomass utilisation to solar settlements to integrated regional energy networks. As an integral part of the Summer School students will have the opportunity to solve problems defined by themselves under the supervision of skilled lecturers utilising the knowledge and tool kits presented in the lectures. The solutions presented by the students will be critically appraised by a jury of experts and published on the homepage.

INFORMATION AND REGISTRATION

For further information please visit <http://styrianacademy.eu>

COST

€ 500, including lectures, supporting material, accommodation and meals. For questions, please contact office@styrianacademy.eu

SUMMER SCHOOL 2010: REGIONAL SUSTAINABLE ENERGY SYSTEMS

Time: 5 –16 July 2010

Venue: Fachschule für Land- und Ernährungswissenschaft Haidegg
Ragnitzstraße 193, 8047 Graz, Austria, <http://www.fs-haidegg.at/>

WEEK 1 DAY 1: MONDAY, 5 JULY 2010, 08:00 – 18:00

08:00 – 09:00 Registration

Morning session

09:00 – 10:00 “Introduction, Challenges, Code of Conduct” by Michael Narodoslowsky, TU Graz, Austria; Chemical Engineering and Sustainable Development

10:00 – 10:30 Workshop led by Michael Narodoslowsky

10:30 – 11:00 Coffee break

11:00 – 12:00 “Energy Policy and Sustainable Development on the European, National and Regional Level” by William Lafferty, University of Oslo and SINTEF, Norway; Political Sciences

12:00 – 12:30 Workshop led by William Lafferty

12:30 – 13:30 Lunch

Afternoon session

13:30 – 14:30 “Perspectives on the Competition between Renewable Energy Technologies and Conventional Energy Systems” by G. Jan Harmsen, University of Groningen, The Netherlands; Technical Sciences and Sustainable Development

14:30 – 15:00 Workshop led by G. Jan Harmsen

15:00 – 15:30 Coffee break

15:30 – 18:00 Individual contacts with lecturers about own projects

DAY2: TUESDAY, 6 JULY 2010, 09:00 – 19:00

Morning session

09:00 – 10:00 “Renewable Energy for Industrial Processes” by Hans Schnitzer, TU Graz, Austria; Chemical Engineering and Sustainable Development

10:00 – 10:30 Workshop led by Hans Schnitzer

10:30 – 11:00 Coffee break

11:00 – 12:00 “Regional Implementation of Innovative Sustainable Energy Systems”
by Yoram Krozer, Cartesius Institute, The Netherlands;
Environment and Innovation Development

12:00 – 12:30 Workshop led by Yoram Krozer

12:30 – 13:30 Lunch

Afternoon session

13:30 – 14:30 “Sustainable Energy Technologies” by Ina Körner, TU Hamburg Harburg,
Germany; Bioconversion and Emission Reduction

14:30 – 15:00 Workshop led by Ina Körner

15:00 – 15:30 Coffee break

15.30 – 16.30 Individual contacts with lecturers about own projects

17:00 – 19:00 Graz City Guided Tour

DAY 3: WEDNESDAY, 7 JULY 2010, 09:00 – 18:00

Morning session

09:00 – 10:00 “Linking Energy and Regions by Information Technology” by Luigi Crema,
Fondazione Bruno Kessler, Italy; Information Sciences

10:00 – 10:30 Workshop led by Luigi Crema

10:30 – 11:00 Coffee break

11:00 – 12:00 “Energy Innovation in a Regional Context” by Audun Ruud, SINTEF, Norway;
Political Sciences

12:00 – 12:30 Workshop led by Audun Ruud

12:30 – 13:30 Lunch

Afternoon session

13:30 – 14:30 “Sustainable Energy Solutions in the USA” by Tim Krantz, University of Redlands,
United States of America; Environmental Sciences and Land Use

14:30 – 15:00 Workshop led by Tim Krantz

15:00 – 15:30 Coffee break

15:30 – 16:15 “Strategic Planning for Europe’s Energy Future” by Karl Rose, World Energy Council,
United Kingdom of Great Britain and Northern Ireland, Senior Fellow

16:15 – 17:00 Workshop led by Karl Rose

17:00 – 18:00 Individual contacts with lecturers about own projects

Evening reception

Venue: **Medienzentrum Steiermark, Hofgasse 16, 8010 Graz, Austria**

19:00 – 22:00 Garden Talk on “Smart e-Mobility” by Klaus Woltron, Owner and President of ADVENGYS GmbH and AG, Austria, followed by informal discussions during dinner on the invitation of the Styrian Government

DAY 4: THURSDAY, 8 JULY 2010, 09:00 – 18:00

Morning session

09:00 – 10:00 “Sustainable Energy Systems and their Influence on Landscape”
by Bianca-Maria Rinaldi, TU Graz, Austria; Institute for Architecture and Landscape

10:00 – 10:30 Workshop led by Bianca-Maria Rinaldi

10:30 – 11:00 *Coffee break*

11:00 – 12:00 “Energy Efficient Buildings” by Peter Kautsch, TU Graz, Austria;
Building Construction and Building Physics

12:00 – 12:30 Workshop led by Peter Kautsch

12:30 – 13:30 Lunch

Afternoon session

13:30 – 14:30 “Energy and Spatial Planning” by Gernot Stöglehner, University of of Natural Resources and Applied Life Sciences, Vienna, Austria; Land Use Planning

14:30 – 15:00 Workshop led by Gernot Stöglehner

15:00 – 15:30 *Coffee break*

15:30 – 18:00 Individual contacts with lecturers about own projects

DAY 5: FRIDAY, 9 JULY 2010, 09:00 – 18:00

Morning session

09:00 – 10:00 “Sustainable Energy Systems Distribution Networks and Optimal Energy Mixes”
by Horst Steinmüller, Johannes Kepler University Linz, Austria; Energy Institute;
Technical Sciences

10:00 – 10:30 Workshop led by Horst Steinmüller

10:30 – 11:00 *Coffee break*

- 11:00 – 12:00** “Regional Resource and Energy Management Policy” by Maarten Arentsen, University of Twente, The Netherlands; Political Sciences
- 12:00 – 12:30** Workshop led by Maarten Arentsen
- 12:30 – 13:30** Lunch
- Afternoon session*
- 13:30 – 14:30** “Smart Energy Grids” by Lothar Fickert, TU Graz, Austria; Electrical Engineering
- 14:30 – 15:00** Workshop led by Lothar Fickert
- 15:00 – 15:30** Coffee break
- 15:30 – 18:00** Individual contacts with lecturers about own projects

WEEK 2 **DAY 1: MONDAY, 12 JULY 2010, 09:00 - 18:00**

- Morning session*
- 09:00 – 10:30** “Round Table: Project Solution” by Michael Narodoslawsky, TU Graz, Austria; Chemical Engineering and Sustainable Development
- 10:30 – 11:00** Coffee break
- 11:00 – 12:30** “Regional Energy System Optimisation with Process Network Synthesis (PNS)” by Michael Narodoslawsky and Nora Katalin Sandor, TU Graz, Austria; Chemical Engineering and Sustainable Development
- 12:30 – 13:30** Lunch
- Afternoon session*
- 13:30 – 15:00** “PNS Practical Session” by Michael Narodoslawsky and Nora Katalin Sandor, TU Graz, Austria; Chemical Engineering and Sustainable Development
- 15:00 – 15:30** Coffee break
- 15:30 – 18:00** Project work

DAY 2: TUESDAY, 13 JULY 2010, 09:00 – 18:00

Meeting Point **Fachschule für Land- und Ernährungswissenschaft Haidegg**

Ragnitzstraße 193, 8047 Graz, Austria

09:00 – 17:00

Excursions

Güssing – Energy Self Sufficient Community, <http://www.gussing.at/>
and <http://www.eee-info.net/cms/>

Mureck – SEEG Biogas Plant, <http://www.seeg.at>

17.00 – 18:00

Project work

DAY 3: WEDNESDAY, 14 JULY 2010, 09:00 – 18:00

Morning session

09:00 – 10:30

Project work

10:30 – 11:00

Coffee break

11:00 – 12:30

“Round Table: Project Solution” by Michael Narodoslowsky
and Nora Katalin Sandor, TU Graz, Austria; Chemical Engineering
and Sustainable Development

12:30 – 13:30

Lunch

Afternoon session

13:30 – 15:00

Workshop on “International Networks, EU Project Management and Funding”
chaired by Brigitte Hasewend, Director International and Strategic Partnerships,
TU Graz, eseia Secretary General

Panel Speakers:

Martin Huemer, European Commission, Belgium,

“EU Policy Instruments for Sustainable Energies: From SET Plan to EERA to KIC”

Elisabeth Schermer, European Commission, Belgium,

“Marie Curie Programme”

Gerard den Ouden, EC Training Consultant, Belgium,

“ACP- EU Science and Technology Programme”

15:00 – 15:30

Coffee break

- 15:30 – 17:00** “Round Table: Project Solution” by Michael Narodoslawsky and Nora Katalin Sandor, TU Graz, Austria Chemical Engineering and Sustainable Development
- 17:00 – 18:00** Project work

DAY 4: THURSDAY, 15 JULY 2010, 09:00 – 18:00

Morning session

- 09:00 – 10:30** Project work
- 10:30 – 11:00** Coffee break

- 11:00 – 12:30** “Round Table: Project Solution” by Michael Narodoslawsky and Nora Katalin Sandor, TU Graz, Austria; Chemical Engineering and Sustainable Development
- 12:30 – 13:30** Lunch

Afternoon session

- 13:30 – 14:30** “Intellectual Property Rights Exploitation” by Thomas Bereuter, TU Graz, Austria
- 14:30 – 15:00** Workshop led by Thomas Bereuter, TU Graz, Austria
- 15:00 – 15:30** Coffee break
- 15:30 – 17:00** “Round Table: Project Solution” by Michael Narodoslawsky and Nora Katalin Sandor, TU Graz, Austria; Chemical Engineering and Sustainable Development
- 17:00 – 18:00** Workshop led by Michael Narodoslawsky and Nora Katalin Sandor

DAY 5: FRIDAY, 16 JULY 2010, 09:00 – 14:00

Morning session

- 09:00 – 10:30** “Project Presentations”
- 10:30 – 11:00** Coffee break
- 11:00 – 12:00** “Project Presentations”
- 12:00 – 12:30** Round up
- 12:30 – 13:30** Lunch
- 13:30 – 14:00** Farewell

INFORMATION AND REGISTRATION

Further information
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**STYRIAN ACADEMY FOR SUSTAINABLE ENERGIES
EVENING GARDEN TALK UND EMPFANG FÜR GELADENE GÄSTE**

Die STYRIAN ACADEMY versammelt internationale Top-Experten für hochwertige Seminare über strategische Entwicklungen im Bereich Nachhaltige Energiesysteme in Graz. Die STYRIAN ACADEMY bietet Vorträge international anerkannter Experten über aktuelle Technologietrends für erneuerbare Ressourcen und deren regionale Umsetzungen. Die STYRIAN ACADEMY zeigt innovative Lösungen auf, die in der realen Welt von regionalen Kontexten und globalen Märkten umgesetzt werden. Besonderes Augenmerk wird darauf gelegt, Erfahrungen von praktischen Umsetzungen nachhaltiger Energiesysteme anzubieten. Die Seminare bieten einen einzigartigen Mix aus peer-to-peer Informationen, unterstützt durch wissenschaftliche und technologische Erkenntnisse am neuesten Stand der Technik. Neben diesem Garden Talk finden sich International Summer & Winter Schools, hochrangige International Business Seminars und die STYRIAN ACADEMY 4U unter den angebotenen Formaten der STYRIAN ACADEMY.

**STYRIAN ACADEMY FOR SUSTAINABLE ENERGIES
EVENING GARDEN TALK AND DINNER RECEPTION FOR INVITED GUESTS**

The STYRIAN ACADEMY convenes top international experts in Graz for high level seminars about strategic development in the field of sustainable energy systems. The STYRIAN ACADEMY offers lectures from internationally renowned experts regarding current trends in renewable resource based technologies, their regional adaptation as well as ways to implement innovative solutions into the real world of regional contexts and global markets. Particular emphasis will be laid on providing experience from practical implementation of sustainable energy systems. Therefore the seminar offers a unique mix of peer-to-peer information supported by state-of-the-art scientific and technological knowledge. In addition to the present Garden Talk, Summer & Winter Schools, high level International Business Seminars and the STYRIAN ACADEMY 4U are among the formats offered by the STYRIAN ACADEMY.

Zeit: Mittwoch, 7. Juli 2010, 19:00 – 22:00
Ort: Medienzentrum Steiermark, Hofgasse 16, 8010 Graz, Österreich

Vorläufiges Programm

- 19:00 – 19:30** Eröffnung durch Rektor Hans Sünkel, TU Graz, AT
- 19:30 – 20:15** “Smart e-Mobility”, Klaus Woltron, Besitzer und Präsident der ADVENGYS GmbH und AG, AT
- 20:15 – 21:00** Podiumsdiskussion mit Rektor Hans Sünkel, TU Graz, AT; Bill Lafferty, University of Oslo und SINTEF, N; G. Jan Harmsen, University of Groningen, NL
- Wechsel des Veranstaltungsortes:
Orangerie im Burggarten, Hofgasse 13–15, 8010 Graz, Austria
- 21:00 – 22:00** Offener Meinungs Austausch

Abendessen auf Einladung der Steiermärkischen Landesregierung.

BITTE BEACHTEN SIE

Eröffnung, Vortrag und Podiumsdiskussion dieser Veranstaltung sind in Englisch und werden ins Deutsche übersetzt.
Eine Aufzeichnung wird auf der Website <http://styrianacademy.eu> zur Verfügung gestellt.

INFORMATION

Weitere Informationen finden Sie auf <http://styrianacademy.eu>

Time: Wednesday, 7 July 2010, 19:00 – 22:00
Venue: Medienzentrum Steiermark, Hofgasse 16, 8010 Graz, Austria

Draft Programme

19:00 – 19:30 Opening by Rector Hans Sünkel, TU Graz, Austria

19:30 – 20:15 “Smart e-Mobility” by Klaus Woltron, Owner and President of ADVENGYS GmbH and AG, Austria

20:15 – 21:00 Panel discussion with Rector Hans Sünkel, TU Graz, Austria; Bill Lafferty, University of Oslo and SINTEF, Norway and G. Jan Harmsen, University of Groningen, The Netherlands

Change of venue:
Orangerie im Burggarten, Hofgasse 13-15, 8010 Graz, Austria

21:00 – 22:00 Informal discussions

Dinner will be on the invitation of the Styrian Government.

PLEASE NOTE

Opening, lecture and panel discussion of this event are in English and will be translated into German.
Recordings will be available on the website <http://styrianacademy.eu>

INFORMATION

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