



ÜBER DIE STYRIAN ACADEMY

Die STYRIAN ACADEMY ist eine europäische Aus- und Weiterbildungsplattform mit Standort Steiermark. Die STYRIAN ACADEMY 2010/2011 ist dem europäischen Zukunftsthema nachhaltige Energiesysteme gewidmet.

Die STYRIAN ACADEMY wird von der TU Graz in Kooperation mit internationalen Strategischen Partnern durchgeführt, und richtet sich an Vertreterinnen und Vertreter der Wirtschaft, Entscheidungsträgerinnen und -träger aus der Politik, an exzellente Post-Graduierte europäischer Hochschulen sowie an die interessierte Öffentlichkeit.

Die STYRIAN ACADEMY vermittelt den Teilnehmerinnen und Teilnehmern das notwendige Rüstzeug, das diese für die Markteinführung innovativer Lösungen für erneuerbare Energiesysteme benötigen. Dabei verfolgt die STYRIAN ACADEMY den gesamten Wertschöpfungskreislauf von der Ressourcenbereitstellung bis zum Verbrauch.

Die STYRIAN ACADEMY greift dabei auf nachhaltige Energieinnovationen der European Sustainable Energy Innovation Alliance (eseia) zurück, die in den eseia Modell-Regionen umgesetzt werden (www.eseia.eu).

Gegenüber bereits bestehenden europäischen Aus- und Weiterbildungsangeboten bietet die STYRIAN ACADEMY ein international anerkanntes Training zum unternehmerischen Handeln mit der Befähigung über disziplinäre Grenzen hinaus im Team zu innovativen Lösungen zu gelangen.

Im Rahmen der STYRIAN ACADEMY werden International Business Seminars, International Summer & Winter Schools, informelle Garden Talks & Fireside Chats sowie STYRIAN ACADEMY 4U, Diskussionsveranstaltungen für die interessierte Öffentlichkeit, angeboten.



IHR BENEFIT ALS TEILNEHMER

Die STYRIAN ACADEMY bietet:

1. Die erfolgreiche Verknüpfung der drei Eckpunkte des Wissensdreiecks, sprich, neueste wissenschaftliche Erkenntnisse von Europas führenden Lehr- und Forschungseinrichtungen gepaart mit innovativen Geschäftsmodellen aus der Wirtschaft in speziell für Praktikerinnen und Praktiker entwickelten Trainingseinheiten.
2. Die Möglichkeit des Austausches mit ausgewählten, international anerkannten Vortragenden und Teilnehmern aus Wissenschaft, Wirtschaft und Politik.
3. Eine Anleitung zur Entwicklung inter- und transdisziplinärer Lösungsansätze durch die Förderung systemischer Denkansätze im Team.
4. Die verständliche Vermittlung von neuesten Forschungsergebnissen aus der Wissenschaft für Expertinnen und Praktiker aus der Wirtschaft, Studierende, Lehrende und informierte Laien.
5. Europäischen Top-Studierenden die einzigartige Möglichkeit, sich durch die klimafreundliche Weiterentwicklung der erneuerbaren Energiesysteme in den europäischen Regionen zu nachhaltig motivierten Unternehmerinnen und Entscheidungsträgern mit hohem Verantwortungsbewusstsein für unsere Erde zu entwickeln.
6. Einblick in Best-Practice-Beispiele nachhaltiger Energieinnovationen weltweit sowie einen Überblick über erfolgversprechende Neuerungen mit Geschäftspotenzial.
7. Den exklusiven Zugang zu innovativen Business-Modellen aus erster Hand sowie den B2B-Erfahrungstransfer durch Top-Vortragende.

USP DER STYRIAN ACADEMY

Die STYRIAN ACADEMY zeichnet sich durch folgende Merkmale gegenüber vergleichbaren Angeboten aus:

- 1. THINKING OUT OF THE BOX:**
Entwicklung vernetzter Denkweisen und neuer Perspektiven im Bereich nachhaltiger Energiesysteme abseits von eingefahrenen Mustern und somit die Schärfung von kreativ-mutigen Lösungsansätzen außerhalb der Komfortzone.
- 2. INTER-REGIONAL:**
Hochwertiger Wissensaustausch durch internationale Top-Vortragende zur Vermittlung von transferierbaren Lösungen in einzelnen europäischen Regionen.
- 3. PEER TO PEER:**
Gezielter Austausch von Erfahrungen und Geschäftslösungen zwischen Schlüsselakteuren aus der Wirtschaft auf der Basis von Business-to-Business.
- 4. SYSTEMIC AND INTER-DISCIPLINARY:**
Förderung einer gesamthaften interdisziplinären Betrachtung des Energiesystems im Gegensatz zu einer isolierten Komponentenentwicklung.
- 5. TARGETING PRACTITIONERS OUTSIDE ACADEMIA:**
Neueste und verständlich aufbereitete wissenschaftliche Information für Business-Partner und Entscheidungsträger aus Politik und Wirtschaft direkt von der Know-how-Quelle.
- 6. FOCUSING ON SKILLS TRAINING:**
Gezielte Förderung unternehmerischer Fertigkeiten sowie Ausbau von fachlichen und sozialen Kompetenzen zur Erarbeitung von Lösungen in hochkomplexen interdisziplinären Teams.

4 VERANSTALTUNGSFORMATE

1. INTERNATIONAL BUSINESS SEMINARS:

Teil der STYRIAN ACADEMY sind zweitägige, International Business Seminars für Schlüsselakteure aus der Wirtschaft und für regionale Entscheidungsträger. Ziel dieser Trainingseinheiten ist es, internationales Wissen über Design und Umsetzung von nachhaltigen Energiesystemen auf einer regionalen und einer lokalen Ebene zu fördern.

2. GARDEN-TALKS & FIRESIDE CHATS:

Informelle Gespräche von Experten und Praktikern zur Wissenserweiterung. Gleichzeitig sollen Verbindungen zwischen Vertretern der Wirtschaft, der Politik, der Regionen und Venture Capitalists für künftige Projekte angebahnt werden.

3. INTERNATIONAL SUMMER & WINTER SCHOOLS:

Mehrwöchige Kurse für exzellente Studierende steirischer und internationaler Hochschulen. Ziel dieser englischsprachigen International Summer & Winter Schools ist es, Studierenden aus Sicht internationaler Expertinnen und Experten ein umfassendes Bild technischer, wirtschaftlicher und gesellschaftlicher Entwicklungen zum Themenschwerpunkt 2010/2011 nachhaltige Energie zu bieten.

4. STYRIAN ACADEMY 4U:

Öffentliche Diskussionsveranstaltungen, die zur Bewusstseinsbildung in der Steiermark beitragen und in weiterer Folge unter Einsatz des Internets in die verschiedenen europäischen Regionen übertragen werden.

eseia LEAD INITIATIVE: eRETRAIN

Die STYRIAN ACADEMY ist durch das European Sustainable Energy Innovation Programme in das europäische Gesamtkonzept der

10 EUROPEAN SUSTAINABLE ENERGY INNOVATION ALLIANCE (eseia) LEAD INITIATIVES

eingebettet. Eine zentrale Lead Initiative zur unternehmerischen Aus- und Weiterbildung im Bereich nachhaltige Energie ist das Entrepreneurial Education Programme eRETRAIN, als deren Umsetzung die STYRIAN ACADEMY eine hochkarätige Qualifizierung im Sektor nachhaltige Energiesysteme für internationale Schlüsselakteure aus Wirtschaft, Politik und Verwaltung bietet.

Informationen zu den 10 eseia LEAD INITIATIVES:
www.eseia.eu

eseia MISSION

- Bis 2012 wird eseia 10 Europäische Regionen aktiv bei der Realisierung nachhaltiger Energielösungen unterstützen. Diese Regionen werden als eseia Regional Innovation Labs agieren, wobei sie Umsetzungspartnerschaften mit regionalen Akteuren, Unternehmen, Institutionen und der Gesellschaft eingehen.
- Bis 2015 wird eseia innovative Methoden entwickelt haben, die wissenschaftliche Forschung und Entwicklung, Aus- und Weiterbildung und Transfer zu nachhaltigen Energieinnovationen miteinander verknüpfen.
- Bis 2019 werden die eseia Regional Innovation Labs auf breiterer Basis zu europäischen Modellregionen, die weltweit Beachtung finden, ausgebaut.

eseia MEMBERS (Stand April 2010)

AUSTRIA> BUSINESS PARTNER (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 **KOMPETENZCENTREN (1)>** Kompetenzzentrum Holz GmbH (Wood K plus) **POLITISCHE PARTNER (2)>** Amt der Steiermärkischen Landesregierung **LandesEnergieVerein Steiermark** **WISSENSCHAFTSPARTNER (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)** **BELGIEN> WISSENSCHAFTSPARTNER (1)>** Ghent University **DEUTSCHLAND> WISSENSCHAFTSPARTNER (1)>** Technische Universität Hamburg-Harburg (TUHH) und TuTech Innovation GmbH **IRLAND> WISSENSCHAFTSPARTNER (2)>** Dublin Institute of Technology (DIT) **University College Dublin (UCD)/ National University of Ireland, Dublin (NUID)** **ITALIEN> WISSENSCHAFTSPARTNER (1)>** Fondazione Bruno Kessler (FBK) **LITAUEN> WISSENSCHAFTSPARTNER (2)>** LEI – Lithuanian Energy Institute **Vilnius Gediminas Technical University (VGTU)** **NIEDERLANDE> WISSENSCHAFTSPARTNER (1)>** University of Twente **NORWEGEN> WISSENSCHAFTSPARTNER (2)>** Akershus University College (HiAK) **Sintef Energy Research** **POLEN> WISSENSCHAFTSPARTNER (1)>** Poznań University of Economics **PORTUGAL> WISSENSCHAFTSPARTNER (2)>** Instituto Politécnico de Leiria (IPL) **LNEG – National Laboratory of Energy and Geology** **RUMÄNIEN> WISSENSCHAFTSPARTNER (1)>** Transilvania University of Braşov **SLOWENIEN> WISSENSCHAFTSPARTNER (1)>** University of Maribor **SLOWAKEI> WISSENSCHAFTSPARTNER (4)>** Slovak Academy of Sciences (SAS) – Institute of Technology **Slovak University of Technology in Bratislava (STU)** Technical University of Košice (TUKE) **University of Žilina** **SPANIEN> BUSINESS PARTNER (1)>** ACCIONA **TÜRKEI> WISSENSCHAFTSPARTNER (1)>** Mugla University **UNGARN> WISSENSCHAFTSPARTNER (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)**

INFORMATION UND ANMELDUNG

Weitere Informationen über die
STYRIAN ACADEMY erhalten Sie
unter der Adresse

<http://styrianacademy.eu>

oder per E-mail an

office@styrianacademy.eu

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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
- 10:00 – 10:30** Eröffnung durch die Landesrätin für Wissenschaft und Forschung, Verkehr und Technik, Kristina Edlinger-Ploder
- 10:30 – 11:00** "Training Needs in Sustainable Energies: A Company Perspective", Urs Harnik-Lauris, Leiter Konzernkommunikation Energie Steiermark AG, AT
- 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 Deutsch und werden ins Englische übersetzt.
Eine Aufzeichnung wird auf der Website <http://styrianacademy.eu> zur Verfügung gestellt.

INFORMATION UND REGISTRIERUNG

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*
- 10:00 – 10:30** *Opening by Kristina Edlinger-Ploder, Provincial Minister of Science & Research, Transport & Technology*
- 10:30 – 11:00** *“Training Needs in Sustainable Energies: A Company Perspective” by Urs Harnik-Lauris, Head of Corporate Communication Energie Steiermark AG, Austria*
- 11:00 – 11:30** *“Islands of Sustainability: European Sustainable Energy Innovation Alliance (eseia) creates European Model Regions” by Michael Narodoslawsky, 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 German and will be translated into English.
Recordings will be available on the website <http://styrianacademy.eu>

INFORMATION AND REGISTRATION

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

“Delivery of Energy and Materials – The new Task of biowaste management” 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

INFORMATION AND REGISTRATION

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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 “Ways to make the energetic potential of biowaste accessible” 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

INFORMATION AND REGISTRATION

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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 “Ways to make the energetic potential of biowaste accessible” 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
about the STYRIAN ACADEMY
is available on the website
<http://styrianacademy.eu>
or by e-mail to
office@styrianacademy.eu



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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; Oswin Kois, Sprecher des Vorstandes der Energie Steiermark AG, 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 Meinungsaustausch

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; Oswin Kois, CEO Energie Steiermark AG, 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

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



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