Welcome
by the IIASA Director General and Chief Executive Officer

Starting today, you will be part of one of the most cherished and acclaimed programs of the International Institute for Applied Systems Analysis (IIASA).

As Director General of IIASA I warmly welcome you to the Institute for the three-month-long Young Scientists Summer Program (YSSP), known worldwide as the training ground for future applied systems scientists and analysts. You have been selected from among many applicants for this opportunity to work on a YSSP research project and to enjoy the company of 50 other like-minded young scientists.

Policymakers worldwide need problem-focused, solution-oriented, interdisciplinary research to help them with their complex decision making: in other words, they need systems analysts.

YSSP started in 1977, five years after IIASA was founded, when Roger Levien (IIASA Director, 1975–1981) opened the first young scientists program in order to start building a new cadre of applied systems analysts for the future. The YSSP Program has taken place every year since then, offering hands-on practical experience with applied systems analysis in a multinational and multicultural setting.

You are preceded by more than 1,760 YSSPers from 85 countries. Many have achieved high positions in science, business, and government. Some returned to IIASA as research scholars; others continued to work as close collaborators in IIASA’s large research network. All report great memories of their time at Schloss Laxenburg.

While your research project is a major part of your stay, the YSSP also offers opportunities for widening your horizons by participating in discussions with IIASA scientists, attending seminars given by invited prominent speakers, or contributing to various ad hoc science groups, as well as joining in social activities and sports events.

Following is the program for YSSP 2015. I wish you all a great summer!

Professor Dr. Pavel Kabat
Director General and Chief Executive Officer
June 2015
Welcome

by the IIASA YSSP Dean and Team

We, the YSSP Team—JoAnne, Tanja, Aleks, Brian, Warren, Ying, and Serge—join the Director and all IIASA staff in extending a warm welcome to you.

- JoAnne is the Dean and provides leadership for the YSSP scientific and social curricula.
- Tanja and Aleks coordinate the non-scientific matters of the YSSP. They are the first contact persons for all administrative and social matters.
- Brian is the scientific coordinator and is, together with Joanne, responsible for organizing the scientific program.
- Warren and Ying actively help integrate YSSPers into IIASA and are available for advice and consultation.
- Serge provides computer and technical support, as well as assisting in coordinating some of the YSSP social events.

We look forward to interacting with you and to making your YSSP 2015 experience scientifically productive and socially enjoyable.

YSSP Team:

Dean: Joanne Linnerooth-Bayer
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Scientific Coordinator: Brian Fath
                       fath@iiasa.ac.at; ext. 605

Coordinator: Tanja Huber
             huber@iiasa.ac.at; ext. 344

Team Assistant: Aleksandra Cofala
                cofaleks@iiasa.ac.at; ext. 436

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Warren Sanderson
   sanders@iiasa.ac.at; ext. 252
Gui-Ying Cao
   cao@iiasa.ac.at; ext. 421

Technical Manager: Serge Medow
                   serge@iiasa.ac.at; ext. 438
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Official Events

Welcome Reception – Arrival at IIASA

When: Monday, 1 June 2015, 9:00–09:30
Where: Wodak Conference Area
Meet: YSSP Team, YSSP Program Representatives, Head of Human Resources, and others

*Refreshments will be served upstairs in the Wodak Conference Area*

Official Opening – Part 1

When: Monday, 1 June 2015, 9:30–10:30
Where: Gvishiani Room
Meet: Pavel Kabat, *Director General and Chief Executive Officer*
“Welcome to IIASA”
Joanne Bayer, *YSSP Dean*
“Introducing the Summer Program & the YSSP Team”
Ligia Azevedo and Danielle Haak, *former YSSP participants*

Integration into IIASA Programs and Introduction to Supervisors

When: Monday, 1 June 2015, 10:30–12:00
Where: Program representatives will pick you up from Gvishiani Room and escort you to your research program area
Meet: YSSP supervisors, Program staff & Program administrator; your work space

*Lunch with your Research Program at Schloss restaurant*

Learn about the YSSP Calendar 2015 — Q&A Session

When: Monday, 1 June 2015, 13:30–14:15
Where: Gvishiani Room

What: YSSP Calendar — Your Summer Guide
Find out about the great variety of scientific and social activities available and ask your questions.
Official Opening – Part 2

When: Monday, 1 June 2015, 14:15 – 15:00
Where: Gvishiani Room
What: Briefings

Walter Foith  
*Head of Human Resources*
General Information

Joe Undercoffer  
*Head of Information & Communication Technologies*
Introduction to IIASA’s Computing Environment

International Symposium & Public Lecture “Science-Policy in a Global Context”
Towards Meeting the Challenges of Sustainable Development and Climate Goals — “Global Challenges for Science to Policy” Panel Session

The panel will debate the following two questions:

- Despite a formal process, agreed upon by world governments, for providing scientific evidence, support for, and monitoring of climate negotiations, world governments have failed so far to reach any meaningful agreements on climate goals since the 1992 Kyoto Protocol.
- In contrast to climate negotiations, no such formalized or clearly articulated partnership between science and policy is in place for the negotiations and implementation of the Sustainable Development Goals. How can the global scientific community respond to ensure that the necessary scientific knowledge is available to assist and support these negotiations and their subsequent implementation?

When: Monday, 1 June 2015, 15:30–17:00
Where: Conference Center, Laxenburg

The event is followed by a Public Lecture by José Manuel Barroso (Former President of the European Commission) and Naledi Pandor (South African Minister of Science and Technology)

When: 17:30-18:00
Where: Conference Center Laxenburg
Vernissage and Reception:
When: 18:00-20:00

Human Resources Briefing and Photographs

When: Tuesday, 2 June 2015
Individual groupings to be announced
Where: General Purpose Building

… and Tick Shots

When: First tick shot: Tuesday, 2 June 2015, 9:00 – 12:00
Second tick shot: Thursday, 18 June 2015, 14:00 – 17:00
Individual groupings (see handout in your welcome folder)
Where: Dr. Schuster’s office, General Purpose Building, 2nd floor
**Introductory Research Presentations**

IIASA Program Directors briefly present the Programs’ research areas and YSSPers present the research they will be conducting during this summer.

This gives you an opportunity to pass on brief details of your research to your fellow YSSPers, such as its title, objective, and focus, what motivates your research, and why you find it challenging. (Note: your abstracts and bibliographies will be available at the venue)

**When:** Monday, 8 June 2015, 09:00 –17:00

**Where:** Wodak Room

**Agenda:**
- 09:00 Opening
- 09:10 Advanced Systems Analysis (ASA)
- 09:55 Evolution and Ecology (EEP)
- 10:50 Energy (ENE)
- 11:20 Ecosystems Services and Management (ESM)
- Lunch
- 13:30 Ecosystems Services and Management (ESM)
- 14:00 Mitigation of Air Pollution and Greenhouse Gases (MAG)
- 14:35 World Population (POP)
- 15:20 Risk, Policy, and Vulnerability (RPV)
- 16:00 Transitions to New Technologies (TNT)
- 16:20 Water (WAT)

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**Opening “Heuriger”**

**When:** Monday, 8 June 2015

- 17:30 Leave for Evening Event (Pick up at the Schloss entrance)
- 18:00 Dinner at “Heuriger” Lillienfelderhof (wine tavern)
- 21:00 Transportation back to Vienna

**Meet:** YSSPers and IIASA staff

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**Election of your YSSP Delegates and Informal Thematic Discussions**

**When:** Tuesday, 9 June 2015, 16:15–17:30

**Where:** IIASA Schloss Restaurant – open area in front of the entrance

**What:** The YSSP delegates interact closely with IIASA’s YSSP Team to co-organize and encourage additional scientific activities and also to inform the YSSP Team about any social or other issues that may arise.
Detailed Introduction to Library Services and Use

**When:** Wednesday, 10 June 2015  
15:00–15:45 ESM & WAT  
15:45–16:30 EEP & MAG & ASA  
16:30–17:15 RPV & ENE & TNT & POP  

**Where:** IIASA Library  

**Who:** Michaela Rossini, Head of Library  

**What:** Individual visits to the IIASA Library in groups according to IIASA programs

Final Colloquium

At this event, you present your research findings to colleagues and other IIASA scholars

**When:** Monday, 24 August 2015, 09:00–12:30 and 13:30–17:30  
Tuesday, 25 August 2015, 09:00–16:00  

**Where:** Wodak and Gvishiani Rooms

Award Ceremony and Farewell Dinner & Dance

**When:** Thursday, 27 August 2015, 17:30–24:00  

**Where:** Gallo Rosso Restaurant, Laxenburg  

**Logistics:** Transportation from the venue to Vienna will be provided
Seminars, Workshops, and More

This section gives an overview of the scientific events that are planned for the summer. The program includes seminars, workshops, and other activities, which we hope will enrich your summer by

- acquainting you with IIASA scientists and their research,
- providing feedback on your research,
- stimulating interdisciplinary inquiry,
- providing information on specialized research tools, and
- simply adding to your YSSP experience.

In addition, IIASA has arranged regular lectures by internal and external speakers which you are welcome to attend. We will keep you updated on summer events on the online YSSP calendar (see www.iiasa.ac.at/yssp/calendar).

While these activities are not mandatory, we encourage you to participate actively and use the opportunity to broaden your perspective and knowledge. If you would like to hear more about IIASA research, or organize a discussion group or other activity, the YSSP Team is happy to assist.

Wishing you a stimulating and productive summer,

The YSSP Team
**Invited Speakers Lecture: Energy Myths and Realities**

**Professor Vaclav Smil,** *Distinguished Professor Emeritus, Faculty of Environment at the University of Manitoba, Winnipeg, Canada*

Realistic appraisals of national and global energy prospects require interdisciplinary understanding of many complex and interactive processes. Unfortunately, discourse at political and public levels has been governed for decades by misleading simplifications and misrepresentations, and this has led to many unrealistic expectations.

**When:** Friday, 5 June 2015, 10:30 – 11:30

**Where:** Gvishiani Room

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**IIASA Seminar Series**

In this ongoing seminar series, a different IIASA scientist each week will present an overview of his/her current research to all staff and YSSP. Follow the online calendar for announcements of the speakers. Light refreshments will be served.

**When:** Thursdays, 12:00–13:00

**Where:** t.b.a., check the Google Online Calendar for details

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**Coffee Talks with IIASA Scientists**

These sessions provide an informal setting for IIASA scientists from various program to discuss their research with YSSP. Come and join us after lunch, have a coffee, and learn about some of the research going on at IIASA; hear about the breadth of activity from a diversity of programs. Follow the online calendar for announcements of the individual discussants and topics.

**When:** Tuesdays, 12:45–13:30 starting on 16 June

**Where:** SR Coffee Area

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**Workshop on Introduction to GIS (Geographic Information Systems)**

The session will begin with a lecture covering the basics of GIS, namely, vector and raster data, spatial analysis, ArcGIS, and Quantum GIS (an open-source GIS package). This will be followed by a hands-on section where participants can work through a series of exercises to learn ArcGIS or Quantum GIS, depending on their interests.

Please register your interest prior to the workshop by emailing Linda See (see@iiasa.ac.at) to discuss getting the software installed on your laptop and then bring your laptop to the session. This workshop is aimed at users with no or limited GIS experience. Anyone with moderate or advanced GIS experience can contact Linda See during the summer to discuss any GIS issues.

**When:** Wednesday, 17 June 2015, 13:00 – 16:00

**Where:** Gvishiani Room

**Who:** Linda See, Research Scholar, ESM
Short Course on Data Analysis in R

R is an open source platform for statistical computing. It is free for anyone to download anywhere, and is available for most operating systems (Windows, Linux, Apple). This course will teach you how to get started in R, including basic data analysis and graphical functions. It is intended for absolute beginners; a basic background in statistics will be assumed.

**When:** Thursday, 18 June 2015, 15:00 – 16:30  
**Where:** Gvishiani Room  
**Who:** Carl Salk, IIASA Postdoctoral Research Scholar, ESM

IIASA Model Showcase

Model structures of the major models used at IIASA such as the GAINS, GLOBIOM, MESSAGE, and CATSIM will be explained by IIASA experts.

**When:**  
- GAINS & GLOBIUM Wednesday, 24 June 2015, 15:00 – 16:30  
- MESSAGE & CATSIM Thursday, 25 June 2015, 15:00 – 16:30  
**Where:** Gvishiani Room  
**Who:**  
- Jens Borken Kleefeld, Senior Research Scholar, MAG  
- Petr Havlik, Research Scholar, ESM  
- Manfred Strubegger, Senior Research Scholar, ENE  
- Stefan Hochrainer-Stigler, Senior Research Scholar, RPV

Manuscript Preparation Seminar

Your scientific career will largely be assessed by the quality and quantity of publications in peer-reviewed journals. It is therefore necessary to be able to communicate your results effectively to peers. This seminar will provide an editor’s perspective on a journal’s three R’s: Readers, Writers, and Reviewers as well as tips for writing clearly organized, publishable, and highly cited papers.

**When:** Wednesday, 8 July 2015, 10:00–11:30  
**Where:** Wodak Room  
**Who:** Brian Fath, Research Scholar, ASA

Grant Writing Seminar

Are you concerned about your prospects for the future? Are you planning on writing your own grant proposal? Michael Obersteiner (Ecosystem Services and Management Director) will talk about how to write a proposal, the do’s and don’ts, possible issues that may arise along the way, and his experiences as an applicant for and examiner of grant proposals.

**When:** Wednesday, 15 July 2015, 10:00 – 11:30  
**Where:** Wodak Room  
**Who:** Michael Obersteiner, Program Director, ESM

Grand Challenges for Global Sustainability

Interactive discussion around on THE controversial questions regarding the future of humanity. This session will collect input from YSSPers on what you think are the critical problem areas and future steps for addressing them.

**When:** Wednesday, 22 July 2015, 15:30 – 17:30  
**Where:** Gvishiani Room  
**Who:** YSSPers and IIASA staff
**Invited Speakers Lecture: Climate Change and its Consequences**

**Prof. Dr. Helga Kromp-Kolb, University of Natural Resources and Life Sciences, Vienna, Austria**

Dr. Kromp-Kolb is head of the Centre for Global Change and Sustainability at the University of Natural Resources and Life Sciences, Vienna. A trained meteorologist, she is a leading expert on climate change and its impacts, and, more broadly, her expertise includes environmental topics ranging from air pollution to disaster risk analysis. Dr. Kromp-Kolb was the coordinating lead author (along with Dr. Nakicenovic at IIASA) of the Austrian Assessment Report 2014 (AAR14); this consists of three volumes that present the existing knowledge on climate change in Austria, and on the needs and possibilities for mitigation and adaptation. She is advisor to the Ministry for Defense and Sports; Central Institution for Meteorology and Geodynamics; World Wide Fund for Nature; and the Virtual Collegium for Social Ecology (IFF). Her awards include the Austrian Climate Protection Prize 2008, WWF Panda Award 2006, Golden Honor for Service to Vienna 2006, Scientist of the Year 2005.

**When:** Wednesday, 29 July 2015, 15:00 – 16:30  
**Where:** Wodak Room

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**Prof. Andrew Revkin, Science and Environmental Writer**

Andrew C. Revkin is an American, non-fiction, science and environmental writer. He has written on a wide range of subjects including destruction of the Amazon rain forest, the 2004 Asian tsunami, science and politics, climate change, and the North Pole. A reporter for the New York Times from 1995 to 2009, Revkin currently writes the Dot Earth environmental blog for The Times’ Opinion Pages. He is also Senior Fellow for Environmental Understanding at the Pace Academy for Applied Environmental Studies at Pace University.

**When:** The week of 10 – 14 August  
**Where:** various lectures and workshops

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**Plural Rationality in Forest Management Game**

Are you interested in playing an interactive computer game together with your colleagues? The challenges facing groups, organizations, and societies that strive to achieve the equitable and sustainable governance of common goods are far from being resolved. By playing a multi-player game simulating forest management, you will face these challenges yourself. This will give you a direct understanding of the problems involved and an opportunity to apply your ideas to solve them.

Please sign up for this game and, in so doing, help us to collect data for ongoing research.

**When:** Wednesday, 12 August 2015, 10:00 – 12:00  
**Where:** Gvishiani Room  
**Who:** JoAnne Bayer, Acting Program Director, RPV  
Ulf Dieckmann, Program Director, EEP  
Piotr Magnuszewski, Research Scholar, RPV  
Michael Thompson, Senior Research Scholar, RPV  
Peter Bednarik, Postdoctoral Research Scholar, EEP/RPV
EXTRACURRICULAR
SOCIAL ACTIVITIES, SUMMER 2015

What the YSSP Team or STAC (Staff Association Committee) have planned for you

Vienna Walk
When: Sunday, 7 June, 2015, 10:00–13:00
Where: Meeting point: U1/U3 stop “Stephansplatz” at Café “AIDA”
Who: Guided tour through Vienna’s city center

Historical Tour of the Castle
When: Tuesday, 10 June 2015, 15:00 –16:00
Where: Meeting point: Schloss Entrance Area
Who: Brian Fath, YSSP Scientific Coordinator

Tour of the Vienna Museum of Natural History
When: Friday, 17 July 2015, 15:00– 17:00
Where: Vienna Museum of Natural History
Who: Prof. Christian Köberl, Director General of the Natural History Museum

And ...
19 – 21 June YSSP Weekend Trip to Hallstatt, Austria (own expense)
t.b.a. YSSP/STAC Midsummer Party
3 July STAC USA Day
23 July STAC Asia Day
t.b.a. STAC Triathlon

Throughout the Summer:
Tennis, Table Tennis, Volleyball, Yoga, and Soccer (incl. tournaments)
Swimming (public swimming pool within walking distance)
t.b.a. YSSP Boat Race & BBQ
t.b.a. Movie Sessions
t.b.a. Art vernissages

In addition, you may like to organize your own social activity (e.g., exploring Vienna’s social scene, various trips around Austria, international days, etc.). The YSSP team can help you with these events by providing local information and tips.
## 2015 YSSP Calendar of Scientific & Official Events

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HR: Human Resources  
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Maps to Help you Find your Way around in the First Few Days

Center of Laxenburg

IIASA, Schloss Laxenburg, 1st floor

IIASA, Schloss Restaurant

IIASA, General Purpose Building (GPB)

Main entrance

To Vienna

To Park

Church

Bus stop from Vienna

Bus stop to Vienna

Entrance

Wodak Room

Gvishiani Room

Raiffa Room

Library
# Bus Schedule between Mödling and Laxenburg

## LAXENBURG - MÖDLING

### POSTBUS 215

**Abfahrt: Laxenburg Franz Joseph-Platz**
Leopold Figl-Straße; 2 Min. später

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### Erklärungen

* an Schultagen
* am 24. u. 31.12.2014 wie an Samstagen

## MÖDLING - LAXENBURG

### POSTBUS 215

**Abfahrt: Bahnhof Mödling**
Vr. Nauendorf, Badner Bahn; 4-5 Min. später

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### Erklärungen

B fährt ab Badstraße 2 - 5 Min vorher
* an Schultagen

am 24. u. 31.12.2014 wie an Samstagen

### INFO HOTLINE 0810 22 23 24
Mo-Fr 7:00-20:00, Sa 7:00-14:00

www.vor.at  www.vvmb.at

### Fahrplan gültig bis 12. Dezember 2015
Alle Angaben ohne Gewähr!
**The YSSP Program Representatives**

### Energy and Climate Change

**ENE** Nils JOHNSON  
johnsonn@iiasa.ac.at; ext. 490  
Energy

**MAG** Jens BORKEN-KLEEFELD  
borken@iiasa.ac.at; ext. 570  
Mitigation of Air Pollution & Greenhouse Gases

### Food and Water

**EEP** Rupert MAZZUCCO  
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Evolution and Ecology

**ESM** Florian KRAXNER  
kraxner@iiasa.ac.at; ext. 233  
Ecosystems Services and Management

### Poverty and Equity

**RPV** Susanne HANGER  
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Risk, Policy and Vulnerability

### Drivers of Global Transformations

**POP** Valeria BORDONE  
bordone@iiasa.ac.at; ext. 363  
World Population

**TNT** Nils JOHNSON  
johnsonn@iiasa.ac.at; ext. 490  
Transitions to New Technologies

### Systems Analysis

**ASA** Brian FATH  
fath@iiasa.ac.at; ext. 605  
Advanced Systems Analysis

### Exploratory Projects

**WAT** David WIBERG  
wiberg@iiasa.ac.at; ext. 588  
Water

Sylvia TRAMBEREND  
trambers@iiasa.ac.at, ext. 401
Stay in Touch
The IIASA Alumni Association Keeps You Informed about IIASA Colleagues!

At the end of your YSSP stay, all of you will be IIASA alumni/ae (from the Latin, “nourished”). You will be leaving, nourished and hopefully enriched, with certificates as proof. Most likely you will take with you positive memories of a productive and enjoyable stay at IIASA, as well as new ideas, contacts, and relationships that inevitably develop during the summer.

The IIASA Alumni Association hopes to help you maintain a continuing relationship with the Institute and colleagues, by keeping the information that you give us about your activities up-to-date and publishing what you would like others to know about your whereabouts, your work, and your interests.

Through the Alumni Association, IIASA also wishes to keep you informed about new programs that you might find interesting; to ask your help in making YSSP and IIASA better known; to receive feedback and ideas about the Institute, its programs, and possible future areas of research.

When the summer is almost over, you can join the IIASA Alumni Association.

The Alumni Association wishes you a most successful three months, and looks forward to helping you remain an important part of the Institute’s extended family when you leave.

Contact:
Marzena Adamczuk
Alumni and Development Officer
Office Of Sponsored Research
adamczuk@iiasa.ac.at
IIASA’s annual Young Scientists Summer Program (YSSP) is a three-month (June–August) research activity for advanced students whose interests correspond to IIASA’s core research themes: Energy and Climate Change; Food and Water; and Poverty and Equity. In most cases, those accepted are fully funded by one of IIASA’s National Member Organizations. Widely recognized and highly regarded, the YSSP offers a unique opportunity to acquire international experience, enhance research skills, and become part of a worldwide network of interdisciplinary and cross-cultural specialists. Since 1977 more than 1,760 graduate students from 85 countries have participated in the Program.

During the three-month period, young scientists work closely with IIASA researchers in international and interdisciplinary fields. Guided by senior scientists, participants develop and expand their research topics. A program of seminars and lectures by short-term visiting scholars and collaborators introduces the students to research carried out on global problems within IIASA and at other institutions around the world. At the end of the summer, participants complete papers or reports on their research activities, which usually contribute to their doctoral theses.

What a young scientist wrote about the YSSP:

The YSSP did wonders for my academic development as a young researcher. Therefore, I would like to ask the IIASA Annual Fund donors to “Please continue to support this wonderful program. Your contributions have made a great difference for me, and I hope that students from other developing countries would be able to benefit from this program.”

Pheakkdey Nguon, YSSP 2012 and recipient of the IPCC Fellowship

Further information on the YSSP: www.iiasa.ac.at/yssp
or: Via the Facebook group: YSSP—Young Scientists Summer Program at IIASA or: YSSP, International Institute for Applied Systems Analysis
A-2361 Laxenburg, Austria
Phone: +43 2236 807 344