a new generation of scientists

YSSP  Young Scientists Summer Program

Calendar 2006
Welcome

by the IIASA Director

From today, you will be the guest of the International Institute for Applied Systems Analysis for three months. You will be working on your research project and enjoying the company of some 50 other young scientists. It is going to be an exciting summer! As the current Director of IIASA I welcome you to the Institute.

More than 1,300 participants in IIASA’s Young Scientists Summer Program (YSSP) have preceded you. And they have found their way across the globe; many as scientists, others in business or in public service.

It all started in 1977, five years after the beginning of IIASA, when Roger Levien (Director of IIASA, 1975–1981) opened the first young scientists program. His argument for having a special program for young scientists was that it was very difficult, in those days, to find excellent scientists specialized in 'systems analysis.' From its inception ‘the Institute recruited mature scientists with strong disciplinary research backgrounds, formed them into interdisciplinary and international teams, and applied them to policy-relevant problems. The results were mixed: it is difficult for experienced scientists, nurtured on the research paradigms of their fields, to develop new approaches in mid career.’ (Options, Autumn 2002). The Institute needed to build a new cadre of applied systems analysts; and so it did. Many of the YSSP participants stayed in the field of systems analysis after leaving IIASA; quite a few returned to IIASA in later years. Many others remained part of the collaborating networks of IIASA programs and projects.

Today, scientific training in many countries devotes more time to multi- and interdisciplinary research and to applications. But hands-on experience in applied systems analysis is seldom provided. IIASA offers this in its YSSP and offers it in a multinational and multicultural setting. You have been selected to participate and are about to start your three months’ stay.

This summer’s program follows on the next pages and you will see how exciting it is. Of course most of the time you will work on your project, but the YSSP program also offers opportunities to widen your horizons by participating in the YSSP Outbreak Forum, or attending seminars given by our world-renowned Institute Scholars, or joining the ‘Philosophy in Science’ discussion group. Or take part in all of the above. And reserve time to join the social activities and sports events.

I wish you a great summer!

Leen Hordijk

1 June 2006
Welcome

by the IIASA YSSP Dean and Team

We, the YSSP Team—Tanja, Matthias, Joanne, Serge, and Barbara—join the IIASA Director and all IIASA staff in extending our warm welcome to you.

The YSSP Team is responsible for making your summer at the Institute productive, exciting, and memorable scientifically and socially. Of course, we are available if problems arise for which you may require our advice or help. You may want to consult us, for example, in order to find out more about how things work in Austria, or if you have a scientific or personal problem.

Tanja and Barbara coordinate non-scientific matters of the YSSP. They are the first contact persons for all administrative and social matters.

Serge provides computer and technical support, as well as assisting in coordinating some of the YSSP social events. He is also Chairman of the Staff Association’s Social Committee.

Matthias is the scientific coordinator of the YSSP. He closely interacts with you on many occasions, including planning the YSSP Outbreak Forum and the Late Summer YSSP Workshop.

Joanne is the Dean of the YSSP. When all else fails, her office door is always open.

Welcome to the YSSP 2006!

YSSP Team:

Dean: Joanne Linnerooth-Bayer  
(ext. 308; Email: bayer@iiasa.ac.at)

Scientific Coordinator: Matthias Jonas  
(ext. 430; Email: jonas@iiasa.ac.at)

Coordinators: Tanja Huber  
(ext. 344; Email: huber@iiasa.ac.at)  
Barbara Hauser  
(ext. 541; Email: hauser@iiasa.ac.at)

Computer & Technical Support: Serge Medow  
(ext. 438; Email: serge@iiasa.ac.at)
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CORE PROGRAM
THE ESSENTIAL PART OF THE YOUNG SCIENTISTS SUMMER PROGRAM

Arrival at IIASA

When: Thursday, 1 June 2006
09:00–10:00

Where: Wodak Conference Area

Meet: Director, YSSP Team, YSSP Program Representatives, Staff Association Representative, and many others

Refreshments will be served

Integration into IIASA Programs and Introduction to Supervisors

When: Thursday, 1 June 2006
10:00–12:00

Where: Wodak Conference Area

Who: YSSP Team and YSSP Program Reps

Joint Lunch
**Official Opening**

**When:** Thursday, 1 June 2006  
14:00–16:45

**Where:** Gvishiani Room

14:00–15:00  
Leen Hordijk  
*Director*  
Welcome to IIASA  
Overview of IIASA Programs

Joanne Linnerooth-Bayer  
*YSSP Dean*  
Introducing YSSP Program and YSSP Team

Tibor Vaško  
*IIASA Alumnus and Former YSSP Dean*  
Keynote: How Everything Began

Matthias Jonas  
Tanja Huber  
*YSSP Scientific Coordinator*  
*YSSP Coordinator*  
YSSP Calendar 2006—Your Summer Guide

Ian McCallum  
*Staff Association Representative*  
Welcome

15:00–15:30  
*Coffee Break*

15:30–16:45  
Walter Foith  
*Human Resources, Head*  
General Information

Assen Novatchkov  
*Computer Services, Head*  
General Introduction to IIASA’s Computing Environment

17:30  
*Leave for Evening Event*

18:00  
*Dinner at ‘Heuriger’*
Introduction to the Young Scientists Summer Program 2006

Find out about the great variety of scientific and social activities during your summer at IIASA.

When: Tuesday, 6 June 2006
09:00–11:00

Where: Wodak Room

Who: YSSP Team

What: YSSP Team presents the YSSP Calendar 2006, answers FAQs, such as questions about the publication of your paper, the nomination of your paper for the Aurelio Peccei and Vladimir S. Mikhailievich scholarships of IIASA, etc.

Introductory Seminar

Your Program Leader briefly presents his/her Program and introduces you to the other YSSPers and mentions the research area that you will be working on in his/her group. In addition, you are given the opportunity to acquaint the other YSSPers with further details of your envisaged work like its title, objective and why you find it challenging or fascinating (no PowerPoint; your bibliographies and abstracts will be available).

When: Wednesday, 7 June 2006
13:30–17:45

Where: Wodak Room

What: Program panel presentations. Each panel presentation offers two parts:
(1) Introduction of Program by Program Leader (5 min);
(2) YSSPers’ presentations (2 min per YSSPer)

13:30–14:15 HGC / LUC / EEP
14:30–15:15 FOR / APD / GGI
15:45–16:30 POP / PCC / RAV / PIN
16:45–17:45 DYN / IME / TNT / ECS

18:00 Social Evening Event

(For acronyms please see page 18)
Core Program

Election of YSSP Delegates

The YSSP Delegates interact closely with IIASA’s YSSP Team to co-organize, and encourage additional, scientific activities; to organize the extracurricular events for which the YSSPers are responsible; and to inform the YSSP Team about any social or other issues that may arise.

When: Thursday, 8 June 2006
11:00–12:30

Where: Green Coffee Room (Schloss Restaurant)

What: YSSPers elect their Delegates

IIASA’s Library Services

Acquaint yourself with the IIASA Library and its services. The Library provides scientific literature and research data of all kinds, including books, periodicals, reference sources, and statistics. If requested material is not available in-house, it can usually be quickly made available through a network of cooperating institutions.

When: Friday, 9 June 2006
09:00–12:00

Where: IIASA Library

Instructor: Aviott John, Head of IIASA Library

What: Individual visits to the IIASA Library, in groups according to IIASA Programs, at the times as shown below:

09:00–10:00: APD / FOR / LUC
10:00–11:00: DYN / EEP / HGC / PIN / POP / RAV
11:00–12:00: ECS / GGI / IME / PCC / TNT

(For acronyms please see page 18)
Late Summer YSSP Workshop

This is your platform to present and defend your semi-final findings in front of other YSSP participants and interested IIASA scholars.

**When:** Wednesday–Thursday, 23–24 August 2006
08:30–17:30

**Where:** Wodak and Gvishiani Rooms

**What:** Details to be announced!

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Award Ceremony and Farewell Dinner & Dance

Receive your 2006 YSSP Diploma and say ‘Auf Wiedersehen’ to all the friends you have made and all the interesting people you have met over the summer.

**When:** Tuesday, 29 August 2006
17:00–24:00
(transportation to the hostels and Vienna will be provided)

**Where:** Conference Center

**What:** Details to be announced!
OPTIONAL PROGRAM
A WIDE RANGE OF LECTURES, SEMINARS, AND DISCUSSION GROUPS IS ON OFFER*

Tools of Systems Analysis Course
Learn about useful tools and techniques widely applied in systems analysis. Systems analysis derives its strength from the flexibility of combining powerful tools. Through a series of five lectures, this mini-course will acquaint you with some of the major methods and offer points of departure for students who wish to learn more. The emphasis will be on concepts and illustrations, rather than on technical detail.

When: 11:00–12:00 (on Mondays, if not indicated otherwise)
Where: Gvishiani Room
Who:
Marek Makowski:    John Casti:
Modeling and Optimization    Agent-based Modeling
Friday, 16 June 2006    Monday, 3 July 2006
Sergio Rinaldi:    Arkady Kryazhimskiy:
Dynamical Systems    Optimal Control
Monday, 19 June 2006    Monday, 10 July 2006
Ulf Dieckmann:
Adaptation and Evolution
Monday, 26 June 2006

YSSP Outbreak Forum
One of the opportunities that the YSSP offers is to work across disciplines and across Programs. To foster the formation of this research environment we have reserved up to two days for an Outbreak Forum that might range from presentations of cross-program or clustered research (optionally involving IIASA Scholars as ‘cluster mentors’) to focused group discussions (optionally involving IIASA Scholars as discussion chairs) to any other activity you desire. The YSSP Scientific Coordinator will work together with you, your Supervisors and YSSP Program Representatives in planning this event.

When: Wednesday–Thursday, 21–22 June 2006, 08:30–17:30
Where: Wodak Room
What: Details to be announced! (no parallel session)

Organize yourself. The YSSP Scientific Coordinator will support you by contacting you individually, between 8 and 16 June, and discussing with you, your YSSP Delegates and Supervisors and YSSP Program Representatives an agenda that is most attractive for you. Announcement of Forum agenda by 19 June.

*Information on all speakers can be found at http://www.iiasa.ac.at/yssp/2006lectures
IIASA Research and its Science–Policy Dimension

This is your opportunity to acquaint yourself with more in-depth information on some of IIASA’s research, the key scientific topics on its agenda and current role in the international science and/or policy landscape.

**When:** 10:30–12:00  
**Where:** Wodak Room  
**What:** Presentations by Program Leaders and/or Senior Scholars  
(presentations of 45 min followed by question & answer sessions)  
**Who:**  
Nebojsa Nakicenovic: *The Role of Energy and Technology in Human Development: Some ‘Stylized Facts’ and Future Perspectives*  
Tuesday, 7 June 2006  
Wolfgang Lutz: *Reconstructing and Projecting Populations by Level of Education*  
Wednesday, 5 July 2006  
Thursday, 13 July 2006  
Leen Hordijk: *The Use of IIASA’s RAINS Model in Air Pollution Negotiations, 1984–1994*  
Monday, 17 July 2006  
Sten Nilsson: *Do We Have Enough Trees for the Global Forest Sector?*  
Tuesday, 1 August 2006

**Director’s Seminar**

Enjoy the rare opportunity of listening to a high-level controversial talk that also attracts, among others, ambassadors and selected statesmen/women. You will be offered the opportunity of interacting with a very exceptional Austrian and international politician.

**When:** Tuesday, 11 July 2006  
18:00  
**Where:** Wodak Room  
**What:** Presentation by distinguished speaker invited by the Director  
(presentation of 45 min followed by a chaired discussion)  
**Who:** Erhard Busek: *Education in Transformation*  
**Chair:** IIASA Director
`Philosophy in Science’ Discussion Group

Get active beyond scientific duties and ‘explore’ your mind! Address the question of how epistemological insight and/or knowledge is generated across cultural and societal, including religious and political, boundaries. How should scientists think/train their minds in order to create new insights? Why was Einstein so successful—all the scientific ingredients for his move forward in science were already known at his time?

**When:** Friday, 8 June 2006 (initial brainstorming, all-participant meeting)
17:00–18:30

**Where:** Gvishiani Room

**What:** The first meeting is to explain how this innovative discussion group will work. It also aims to identify topics for discussion within the theme of ‘philosophy in science’ and to organize YSSPers into small, but culturally different groups.

In their own time, possibly over lunch or in the evenings, members of each group will be encouraged to meet to discuss their topics. The scientific coordinator will facilitate the discussions by both feeding research into the discussions and encouraging discussions between the groups.

Renowned lecturers will challenge, through their presentations, the YSSPers on their journey beyond disciplinary and societal boundaries. The discussion groups will then have an opportunity to further interact with the speakers.

It is hoped that the results of the discussion groups will be written up and help will be given to get it published.

**Invited Speakers:**

Howard Raiffa:
*Analytical Roots of a Decision Scientist*
Friday, 16 June, 2006: 13:30–15:00; Wodak Room

Yash Pal:
*Back and Forth Between the Intimate and the Cosmic*
Tuesday, 25 July 2006: 10:30–12:00; Wodak Room

Anton Zeilinger:
*Quantum Physics: From Philosophy to Reality and Back*
Tuesday, 25 July 2006: 13:30–15:00; Wodak Room

Tuesday, 25 July 2006: 16:00–18:00; Wodak Room (interaction between A. Zeilinger/ Y. Pal and participants of the Discussion Group)

Lynn Margulis:
*Slanted Truths and Life’s Evolution—The Scientific Search for Truth even if We Don’t Like What We Find*
Thursday, 10 August, 2006: 10:30–12:00; Wodak Room

Thursday, 10 August, 2006: 13:30–15:00; Wodak Room (interaction between speaker and participants of the Discussion Group)
IIASA Institute Scholars’ Seminar Series

A discourse you may not want to miss—the Institute Scholars’ 2006 YSSP seminar series on technology-ology, the study of technology. Technology-ology seeks to explore problems technological solutions might turn into. Technology-ology, unsurprisingly, is not being taught in any university, yet the faculty that could teach it will be gathered at IIASA.

When: 16:00–17:30 (if not indicated otherwise)

Where: Gvishiani Room (if not indicated otherwise)

What: Presentations by IIASA Institute Scholars (presentations of 45 min followed by chaired discussions)

Chair: Arnulf Grübler (Senior Research Scholar, TNT Program; and Professor, School of Forestry and Environmental Studies, Yale University, New Haven, USA)

Who: Robert Ayres:
*Technologies that were Dropped along the Road. Were They Really Non-competitive?*
Thursday, 20 July 2006

Paul Crutzen:
*A Proposal for Studies on Climate Engineering: Should That Be Allowed?*
Thursday, 27 July 2006

Mike Thompson:
*Carbon Capture and Technological Lock-in: A View from Anthropology*
Thursday, 3 August 2006; Wodak Room

Bruce Beck:
*You Must Be Joking: Cities as Environmental ‘Goods’?*
Friday, 11 August 2006, 13:30–15:00

W. Brian Arthur:
*Domains, or Worlds Entered for What Can Be Accomplished There*
Thursday, 17 August 2006
# Extracurricular Social Activities, Summer 2006

## What We Have Planned for You

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
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<tbody>
<tr>
<td>1 June</td>
<td>Dinner Invitation to a Local Wine Tavern (‘Heuriger’)</td>
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<td>3 June</td>
<td>Vienna Tour</td>
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<td>4 June</td>
<td>Train/Boat Trip in the Danube Valley (‘Wachau’, Austria) (own expense)</td>
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<td>7 June</td>
<td>BBQ Night</td>
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<td>16 June</td>
<td>Après Lecture Social Get-together</td>
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<td>23–25 June</td>
<td>Weekend Trip to Hallstatt/Austria (own expense)</td>
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<td>30 June</td>
<td>Canadian Breakfast</td>
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<td>4 July</td>
<td>4\textsuperscript{th} of July Party</td>
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<td>TBA</td>
<td>Arsenal Museum (guided tour; own expense)</td>
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<td>TBA</td>
<td>Assorted Bicycle/Hiking Trips (own expense)</td>
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<tr>
<td>TBA</td>
<td>Winetasting Excursion (own expense)</td>
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<td>24 August</td>
<td>End of Workshop Social Event</td>
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<tr>
<td>29 August</td>
<td>Award Ceremony and Farewell Dinner &amp; Dance</td>
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<tr>
<td>Throughout the Summer</td>
<td>Tennis, Table Tennis, Volleyball, and Soccer (incl. tournaments)</td>
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</tbody>
</table>

TBA: To be announced.
What We Can Help You With

In addition, you may like to organize your own social activity. Below is a list of events that previous YSSPers organized. The YSSP Team can help you with these events by providing local information and tips.

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<thead>
<tr>
<th>Date</th>
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<tr>
<td>...</td>
<td>Country-specific Event</td>
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<td>...</td>
<td>Exploring Vienna’s Social Scene</td>
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<td>...</td>
<td>Exploring Moedling’s Social Scene</td>
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<td>...</td>
<td>Assorted Trips through Austria</td>
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<td>...</td>
<td>10th IIASA YSSP Triathlon</td>
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# 2006 YSSP Calendar of Events

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<td>Official Opening Social Event</td>
<td>Briefing by HR Vienna Tour Day Tour</td>
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<td>YSSP Calendar Presentation</td>
<td>Introductory Seminar Social Event</td>
<td>Elect YSSP Delegates PiS Kick-off</td>
<td>Library Introduction</td>
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<td>SA Course: S. Rinaldi</td>
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<td>SA Course: M. Makowski</td>
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<td>YSSP Outbreak Forum</td>
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<td>PiS Lecture: H. Raiffa Social Event</td>
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<td>SA Course: S. Rinaldi</td>
<td>YSSP Outbreak Forum</td>
<td>YSSP Outbreak Forum</td>
<td>Weekend Trip</td>
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<td>SA Course: U. Dieckmann</td>
<td>IIASA Lecture: N. Nakicenovic</td>
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<td>Social Event</td>
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<td>SA Course: J. Casti</td>
<td>Social Event</td>
<td>IIASA Lecture: W. Lutz</td>
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<td>SA Course: A. Kryazhimskiy</td>
<td>DI Seminar: E. Busek</td>
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<td>IIASA Lecture: M. Shah</td>
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HR: Human Resources  
PiS Lecture: PiS: 'Philosophy in Science' Discussion Group  
SA Course: Tools of Systems Analysis Course  
IIASA Lecture: IIASA Research and its Science-Policy Dimension
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<td>IIASA Lecture: L. Hordijk</td>
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<td>IS Seminar: R. Ayres</td>
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<td>IIASA Lecture: S. Nilsson</td>
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<td>IS Seminar: M. Thompson</td>
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<td>PIS Lecture: L. Margulis + Disc.</td>
<td>IS Seminar: B. Beck</td>
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<td>IS Seminar: W.B. Arthur</td>
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<td>Late Summer Workshop</td>
<td>Late Summer Workshop Social Event</td>
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**DI Seminar:** Director’s Seminar  
**IS Seminar:** IIASA Institute Scholars’ Seminar

Information on all speakers can be found at [http://www.iiasa.ac.at/yssp/2006lectures](http://www.iiasa.ac.at/yssp/2006lectures)

Public holidays and weekends are shown in blue.
The YSSP Program Representatives

Environment & Natural Resources

APD  Peter TRAMBEREND  
tramberend@iiasa.ac.at; ext. 332  Atmospheric Pollution and Economic Development

EEP  Ulf DIECKMANN  
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FOR  Matthias JONAS  
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LUC  David WIBERG  
wiberq@iiasa.ac.at; ext. 588  Land Use Change and Agriculture

Population & Society

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pachauri@iiasa.ac.at; ext. 475  Population and Climate Change

PIN  Tanja HUBER  
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POP  Isolde PROMMER  
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RAV  Reinhard MECHLER  
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Energy & Technology

DYN  Sergey ASEEV  
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ENE  Nebojsa NAKICENOVIC  
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TNT  Arnulf GRÜBLER  
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Special Projects

ECS  Gerhard TOTSCHNIG  
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HGC  Landis MACKELLAR  
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IME  Marek MAKOWSKI  
marek@iiasa.ac.at; ext. 561  Integrated Modeling Environment

Cross-cutting Activities

GGI  Fabian WAGNER  
wagnerf@iiasa.ac.at; ext. 565  Greenhouse Gas Initiative
KEEP IN TOUCH
JOIN THE IIASA SOCIETY AND STAY INFORMED ABOUT IIASA AND YOUR PAST, PRESENT, AND FUTURE COLLEAGUES

At the end of your YSSP stay, all of you will be alumni/ae (from the Latin, 'nourished'). You will be leaving, nourished, with a certificate as proof, and, most likely, positive memories of a productive and enjoyable stay at IIASA. Equally important will probably be the new ideas, contacts, and relationships that will evolve during the summer.

What the IIASA Society hopes to do is to help you maintain a continuing relationship with the Institute, by keeping information you supply up-to-date and publishing what you would like others to know about your whereabouts, your work, your interests. The published information of former colleagues may make it possible for you to find out about more possibilities for future work.

IIASA also wishes to maintain communication with you: to keep you informed about new programs that you might find interesting; to ask your help in making the YSSP program 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 will be asked to join the IIASA Society by going onto the web site. It will be easy, painless, and free! In the meantime, you will be able to find information (statutes, officers, events, photos) about the Society at: http://www.iiasa.ac.at/IIASA_Society, and you are cordially invited to drop by the Society’s office in the Schloss, Room 17.

Linda Kneucker, the Society’s secretary, is not here every day—but when she is, her door is always open, and she will be happy to assist you in any way she can with questions about the non-academic part of your stay here—not just about the IIASA Society! Emails addressed to kneucker@iiasa.ac.at are always answered.

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

Meinhard Breiling  Linda Kneucker  
President  Secretary  
IIASA Society  IIASA Society
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 Technology, Environment and Natural Resources, and Population and Society. 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 1300 graduate students from over 50 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 helped me look at my research from fresh angles,’ wrote Sarah Elizabeth Staveteig of the University of California, Berkeley. `It offered the springboard I needed to move from coursework to productive independent research. I’ve returned with a potential dissertation chapter, lots of new ideas on how to proceed, and a new network of colleagues, friends, and potential collaborators from around the world.’ She was writing in the science journal Nature about her time as a YSSP student at IIASA in the summer of 2004.

Further information on the YSSP: www.iiasa.ac.at/Admin/YSP/ or: YSSP, International Institute for Applied Systems Analysis A-2361 Laxenburg, Austria Phone: +43 2236 807 0