Welcome
by the IIASA Acting 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 Acting Director of IIASA I welcome you to the Institute.

More than 1,400 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 YSSP also offers opportunities for widening your horizons by participating in discussions with IIASA scientists, attending seminars given by our Institute Research Scholars, or contributing to various ad-hoc science groups. 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!

Sten Nilsson

2 June 2008
Welcome
by the IIASA YSSP Dean and Team

We, the YSSP Team—Mahendra, Tanja, Barbara, Serge, and Warren—join the IIASA Acting 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. We are available to advise or help on all aspects of your stay in Austria, including personal problems.

Tanja and Barbara coordinate the 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.

Mahendra is the Dean of the YSSP. When all else fails, his office door is always open.

Mahendra and Warren, one of IIASA’s Institute Scholars, will coordinate the scientific seminars and facilitate the interdisciplinary workshop dialog and YSSP weekly consultations.

Welcome to the YSSP 2008, and we look forward to working with you to make your international YSSP experience scientifically productive and socially enjoyable!

YSSP Team:

Dean: Mahendra Shah  
(ext. 508; Email: shah@iiasa.ac.at)

Scientific Coordinator: Warren Sanderson  
(ext. 252; Email: sanders@iiasa.ac.at)

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

Administrator: Barbara Hauser  
(ext. 541; Email: hauser@iiasa.ac.at)

Technical Manager: Serge Medow  
(ext. 438; Email: serge@iiasa.ac.at)
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**Welcome and Administration**

The essential part of the Young Scientists Summer Program

**Arrival at IIASA**

**When:** Monday, 2 June 2008  
09:00–10:00

**Where:** Wodak Conference Area

**Meet:** YSSP Team, YSSP Program Representatives, Head of Human Resources, Staff Association Representative, and many others

*Refreshments will be served*

**Integration into IIASA Programs and Introduction to Supervisors**

**When:** Monday, 2 June 2008  
10:00–12:00

**Where:** Wodak Conference Area

**Who:** YSSP Program Representatives

*Joint Lunch*
Official Opening

When: Monday, 2 June 2008  
14:00–17:00

Where: Gvishiani Room

14:00–15:00 Sten Nilsson  
*Acting Director  
Welcome to IIASA

Mahendra Shah  
*YSSP Dean  
Introducing YSSP Program and YSSP Team

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

Tanja Huber  
*YSSP Coordinator  
YSSP Calendar 2008—Your Summer Guide

Serge Medow  
*Staff Association Representative  
Welcome

15:00–15:30  
*Coffee Break

15:30–17:00 Walter Foith  
*Head of Human Resources  
General Information

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

Aviott John  
*Head of Library  
Introduction to IIASA’s Library Services

17:30  
*Leave for Evening Event

18:00  
*Dinner at ‘Heuriger’  
(wine tavern)
Welcome and administration

Introduction to the Young Scientists Summer Program 2008
Find out about the great variety of scientific and social activities during your summer at IIASA.

When: Wednesday, 4 June 2008
Where: Gvishiani Room
Who: YSSP Team
What: YSSP Team presents the YSSP Calendar 2008, answers FAQs, such as questions about the publication of your paper, the nomination of your paper for the Aurelio Peccei and Vladimir S. Mikhalevich scholarships of IIASA, etc.

Detailed Introduction to Library Services and Use

When: Wednesday, 4 June 2008
10:00–11:30
Where: IIASA Library
Who: Aviott John, Head of IIASA Library
What: Individual visits to the IIASA Library, in groups according to IIASA Programs, at the times shown below:

10:00–10:30  APD / FOR / LUC / GGI
10:30–11:00  DYN / EEP / PIN / RAV
11:00–11:30  ENE / IME / TNT / POP

(For acronyms please see page 18)

…and Tick Shots

When: Tuesday 3, June 2008, second Tick Shot 17 June (both dates: in the morning)
Where: Dr. Schuster, General Purpose Building
Introductory Workshop and YSSP Presentations

Your Program Leader briefly presents his/her Program, introduces you to the other YSSPers, and advises you of 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, such as its title, objective and why you find it challenging or fascinating (your bibliographies and abstracts will be available).

When: Monday, 9 June–Tuesday, 10 June 2008
14:00–17:30
Where: Gvishiani (9 June), Wodak (10 June) Room
What: IIASA interdisciplinary science for policy guidance to meet the challenges of the 21st century
Presentations by IIASA Program Leaders/Research Scholars (5 minutes each); each of these presentations is followed by YSSP presentations from the corresponding program.
(5 minutes each)

9 June Group 1: APD/EEP/FOR/LUC/POP/PIN
10 June Group 2: DYN/ENE/TNT/GGI/IME/RAV
30 Minutes Coffee Break Morning and Afternoon Session

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: Wednesday, 11 June 2008
11:00–12:30
Where: Green Coffee Room (Schloss Restaurant)
What: YSSPers elect their Delegates
YSSP Mid-term Progress Review

**When:**  Monday, 7 July–Tuesday, 8 July 2008
          08:30–17:30

**Where:**  Wodak Room

**What:**  Details to be announced

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:**  Tuesday, 26 August–Wednesday, 27 August 2008
          08:30–17:30

**Where:**  Wodak and Gvishiani Rooms

**What:**  Details to be announced

Award Ceremony and Farewell Dinner & Dance

Receive your 2008 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:**  Thursday, 28 August 2008
          17:00–24:00
          (Transportation to the hostels and Vienna will be provided)

**Where:**  Details to be announced

**What:**  Details to be announced
SCIENTIFIC PROGRAM
LECTURES, SEMINARS, AND DISCUSSION GROUPS

Major challenges face the world community in the twenty-first century. These include issues surrounding human well-being such as food security, education and human capital and human health. Or the challenges of protecting the environment and natural resources ranging from forests to fisheries to the air. Or the major problems of tackling climate change and progressing global development. Most of these issues are inter-linked, inter-dependent and inter-disciplinary. During the last three decades they have been the subject of numerous global agenda setting but often with little policy response and implementation. These 21st century challenges have all been studied by IIASA research programs.

The emerging situation with regard to widening world-wide disparities, poverty and hunger, conflicts among others, calls for urgent and strategic political, societal and scientific partnerships for sustainable and progressive developments. The YSSP 2008 scientific program has been designed to facilitate interdisciplinary discussion and dialogue among IIASA research programs and the YSSP participants on the above issues. It will take stock of the consequences and cost of inaction toward applying research to policy actions at the local, national, regional and international level.

Lecture by YSSP Dean, Mahendra Shah

When: Wednesday, 18 June 2008
14:00–16:00

Where: Wodak Room

Who: Mahendra Shah:
*Sustainable Development – From Agenda Setting to Policy Actions*
IIASA Science and Policy Guidance Research

Workshops by IIASA Research Scholars

Interdisciplinary applied research for policy insight toward achieving human well-being and an environmentally sustainable future.

Format: Wednesdays 14:00–17:00. 1.5 hours of presentation, 1.5 hours of workshop discussion as relevant.

Where: Wodak Room

When: Wednesday, 11 June 2008
14:00–17:00
What: Workshop on Systems Analysis and Modeling
PANEL: Panel members from DYN and IME give an overview of modeling and IIASA in-house modeling tools. Followed by a YSSP-led discussion on their individual systems analysis and modeling needs relevant to their summer projects.

When: Wednesday/Thursday, July 2–3 2008 (to be confirmed, 1.5 days)
What: IFTF/IIASA Workshop: Global Science and Technology Innovation
The purpose of the Institute for the Future’s X2 Project is to identify future disruptions, opportunities, and competitive landscapes related to the content and dynamics of global science and technology innovation. IFTF is developing a new, first-of-its-kind platform for better collective understanding of global innovation trends, and to present this information to policy experts, decision-makers, and the general public in a useful, easily accessible, and dynamic form. The IFTF/IIASA workshop will focus on mapping the future of science and technology; to identify new and emerging innovation “hot zones;” and to understand young scientists’ views of the future. For further details see www.iftf.org.

When: Wednesday, 9 July 2008
14:00–17:00
What: Workshop on Human Well-being
PANEL: Coordinated by Shonali Pachauri (PCC), panel members from POP, LUC, HGC, and an Institute Scholar present research on education and human capital, food security, and human health. Followed by a discussion, with YSSPers to prepare and raise issues of human well-being relevant to their summer projects.

When: Wednesday, 23 July 2008
14:00–17:00
What: Workshop on Environment and Natural Resources
PANEL: Coordinated by Michael Obersteiner (FOR), panel members from APD, EEP, ENE, TNT, and an Institute Scholar present research on the environment and natural resources. Followed by a discussion, with YSSPers to prepare and raise issues of environment and natural resources relevant to their summer projects.
Invited Seminars

Format: 1 hour of presentation, 1 hour of discussion. For all sessions: one IIASA discussant and two YSSP discussants

Where: Wodak Room

When: Wednesday, 4 June 2008
14:30–16:30
What: Trends in Emerging Technologies: Energy, Environment, and Development
Kenneth Oye, Massachusetts Institute of Technology (MIT)

When: Wednesday, 25 June 2008
14:30–16:30
What: Methods and Tools for Integrated Sustainability Assessment
Jill Jäger, Editor, MATISSE

When: Wednesday, 16 July 2008
15:00–17:00
What: Globalization and Equity: Kicking away the Ladder
Ha Joon Chang, University of Cambridge

When: To be Announced
What: Poverty and Human Conflicts: The Bottom Billion
Paul Collier, University of Oxford
Other YSSP Seminars

When: Wednesday, 6 August 2008
14:00–16:00
What: Invited Seminar or Open Forum on “Communicating Science and Research to Decision-makers, Media and the Public … Lessons and experiences of IIASA Programs”

When: Wednesday, 20 August 2008
14:00–16:00
What: YSSP Review Seminar – Lessons and Recommendations by YSSP participants to IIASA

When: Friday noon, weeks 4, 6, 8, 10
What: Brown Bag Lunch Seminars – Take a break and nourish your mind by coming to these informal lunchtime seminars

Option for Movies on Selected Thursdays

Starting at 16:00

Climate Change
Blood Diamond
We Feed the World

plus 30 minutes open discussion
EXTRACURRICULAR

SOCIAL ACTIVITIES, SUMMER 2008

What We Have Planned for You

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
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<tbody>
<tr>
<td>2 June</td>
<td>Dinner Invitation to a Local Wine Tavern (‘Heuriger’)</td>
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<tr>
<td>7 June</td>
<td>Vienna Tour</td>
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<tr>
<td>13–15 June</td>
<td>Weekend Trip to Hallstatt/Austria (own expense)</td>
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<tr>
<td>20 June</td>
<td>Midsummer Party</td>
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<tr>
<td>22 June</td>
<td>Bus Trip in the Danube Valley (‘Wachau’, Austria) (own expense)</td>
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<tr>
<td>1 July</td>
<td>Canadian Breakfast</td>
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<td>4 July</td>
<td>4th of July Party</td>
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<tr>
<td>8 July</td>
<td>End of Workshop BBQ</td>
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<td>TBA</td>
<td>Arsenal Museum (guided tour; own expense)</td>
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<tr>
<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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<tr>
<td>28 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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<td></td>
<td>Swimming (public swimming pool within walking distance; €1 entrance fee)</td>
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</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.

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
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<tr>
<td>...</td>
<td>Exploring Vienna’s Social Scene</td>
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<td>...</td>
<td>Exploring Mödling’s Social Scene</td>
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<td>...</td>
<td>Assorted Trips through Austria</td>
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<td>...</td>
<td>12th IIASA YSSP Triathlon</td>
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## 2008 YSSP Calendar of Events

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<td>2 June</td>
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<td>4 June</td>
<td>5 June</td>
<td>6 June</td>
<td>7 June</td>
<td>8 June</td>
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<tr>
<td>Official Opening</td>
<td>Evening Social Event</td>
<td>Briefing by HR Tick Shots Photographs</td>
<td>Introduction to YSSP Seminar K. Oye</td>
<td>Introductory Workshop</td>
<td>Vienna Tour</td>
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<td>9 June</td>
<td>10 June</td>
<td>11 June</td>
<td>12 June</td>
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<td>15 June</td>
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<td></td>
<td></td>
<td>Elect YSSP Delegates Modeling WS</td>
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<td>Trip to Hallstadt</td>
<td>Trip to Hallstadt</td>
<td>Trip to Hallstadt</td>
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<td>16 June</td>
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<td>Seminar M. Shah</td>
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<td>Midsummer Party</td>
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<td>Danube Bus Trip</td>
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<td>23 June</td>
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<td>27 June</td>
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<td></td>
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<td>Invited Seminar J. Jäger</td>
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<td>Brown Bag Lunch</td>
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<td>30 June</td>
<td>1 July</td>
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<td>4 July</td>
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<td>IFTF/IIASA WS</td>
<td>IFTF/IIASA WS</td>
<td>4th of July Party</td>
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<td>7 July</td>
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<td>9 July</td>
<td>10 July</td>
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<td>13 July</td>
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<tr>
<td>Mid-term Progress Review</td>
<td>Mid-term Progress Review/BBQ</td>
<td>Human Well-being WS</td>
<td>Brown Bag Lunch</td>
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Seminar by YSSP Dean, Mahendra Shah  
Workshops by IIASA Research Scholars, Wodak Room  
Invited Seminars, Wodak Room  
Other YSSP Seminars  
HR: Human Resources  
Public holidays and weekends are shown in blue
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<tr>
<td>28 July</td>
<td>29 July</td>
<td>30 July Climate and Development WS</td>
<td>31 July</td>
<td>1 August</td>
<td>2 August</td>
<td>3 August</td>
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<td>4 August</td>
<td>5 August</td>
<td>6 August Invited Seminar/Forum</td>
<td>7 August</td>
<td>8 August Brown Bag Lunch</td>
<td>9 August</td>
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<td>11 August</td>
<td>12 August</td>
<td>13 August Invited Seminar T.B.A.</td>
<td>14 August</td>
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<td>18 August</td>
<td>19 August</td>
<td>20 August YSSP Review Seminar</td>
<td>21 August</td>
<td>22 August</td>
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<tr>
<td>25 August</td>
<td>26 August</td>
<td>27 August Late Summer Workshop</td>
<td>28 August</td>
<td>29 August</td>
<td>30 August</td>
<td>31 August</td>
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</table>
THE YSSP PROGRAM REPRESENTATIVES

Environment & Natural Resources
APD  Maciej MAKOWSKI
      makow@iiasa.ac.at; ext. 381  Atmospheric Pollution and Economic Development
EEP  Ulf DIECKMANN
      dieckman@iiasa.ac.at; ext. 386  Evolution and Ecology
FOR  Matthias JONAS
      jonas@iiasa.ac.at; ext. 430  Forestry
LUC  David WIBERG
      wiberg@iiasa.ac.at; ext. 588  Land Use Change and Agriculture

Population & Society
PCC  Shonali PACHAURI
      pachauri@iiasa.ac.at; ext. 475  Population and Climate Change
PIN  Ariel MACASPAC PENETRANTE
      macaspac@iiasa.ac.at; ext. 575  Processes of International Negotiation
POP  Vegard SKIRBEKK
      skirbeck@iiasa.ac.at; ext. 378  World Population
RAV  Reinhard MECHLER
      mechler@iiasa.ac.at; ext. 313  Risk and Vulnerability

Energy & Technology
DYN  Brian FATH
      fath@iiasa.ac.at; ext. 605  Dynamic Systems
ENE  Volker KREY
      krey@iiasa.ac.at; ext. 415  Energy
Pat WAGNER
      wagner@iiasa.ac.at; ext. 244
TNT  Volker KREY
      krey@iiasa.ac.at; ext. 415  Transitions to New Technologies
Pat WAGNER
      wagner@iiasa.ac.at; ext. 244

Special Projects
HGC  Landis MACKELLAR
      mckellar@iiasa.ac.at; ext. 543  Health and Global Change
IME  Marek MAKOWSKI
      marek@iiasa.ac.at; ext. 561  Integrated Modeling Environment

Cross-cutting Activities
GGI  Geza TOTH
      tothg@iiasa.ac.at; ext. 596  Greenhouse Gas Initiative
KEEP IN TOUCH
JOIN THE IIASA SOCIETY TO BE INFORMED ABOUT IIASA AND COLLEAGUES, PAST, PRESENT, AND FUTURE!

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 probably positive memories of a productive as well as enjoyable stay at IIASA. Equally important will be the new ideas, contacts, and relationships that inevitably develop 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 also be sources for future scientific collaboration.

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 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 will be asked to join the IIASA Society by going on to 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](http://www.iiasa.ac.at/IIASA_Society), and you are cordially invited to drop by the Society’s office in the Schloss, Room 48 or send an email with any questions you may have.

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. 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.

Holger Rogner  
President  
IIASA Society

Linda Kneucker  
Secretary  
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 1400 graduate students from over 70 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

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