



SPACE FOR A SAFE AND SECURE WORLD

First Announcement and Call for Papers
13TH ISU ANNUAL INTERNATIONAL SYMPOSIUM
18th – 20th February 2009, Strasbourg, France

Scope of the Symposium



ISU's next symposium, the thirteenth in a series of annual events, will address space and security issues in a very broad way. As used here, the term 'security' includes civil, military and dual-use systems as well as the continued safe operation of space assets faced with various natural and man-made threats. It also ties into the concept of public well-being, in the context of systems and capabilities that promote a more 'safe and secure' world.

During the Cold War, the term national security was associated primarily with deterrence against strategic attack. National security systems included not only offensive and defensive weapons but also a variety of surveillance and policy operations supported by space systems. It is claimed that satellites did much to preserve a stable stand-off between the super-powers and observations from space, with no intent or capacity to interfere or do damage, are recognized as legal and essential to preserving the peace.

Today, the term security has come to have new meanings. In addition to deterring possible military attacks by rogue states, security systems are intended to contribute to public well-being by, for example, helping to cope with natural disasters, forestalling genocide, monitoring migration and building trust among adversary nations. Of growing global concern of course is how Earth's environment and ecosystem are threatened by man-made and natural causes. Space systems have a central role to play in this new security environment

and, given our dependence on satellites in a wide variety of applications, their continued safe operation has also become vital to human security.

In the vein of the traditional view of 'national security' there is growing concern about placing weapons in space. But just as in the Cold War, non-belligerent space systems can make more immediate and more useful contributions than do weapons to security.

In several nations and international bodies, new methods for enhancing security are under active study with the goal of achieving a more safe and secure world. The issues at stake inherently call for a multi-disciplinary approach, involving the whole spectrum of skills from policy through science and technology, to economics, law and ethics. Global security considerations obviously transcend national interests, so an independent, international view is essential. And the discussion must also be intercultural, as 'security' has different meanings among the world's many cultures.

All these factors make 'Space for a Safe and Secure World' an ideal theme for an ISU symposium since traditionally we address issues from an independent, interdisciplinary and international perspective. In particular we aim to foster constructive dialogue between different sectors of the space community, as well as with participants from outside the space and security communities, that do not often interact in more specialized symposia.

At the end of each session attention will be drawn to the associated Posters and a Panel Discussion will provide further opportunities for questions and for interactions by the session participants. The Poster Session will be held on the first evening in conjunction with a Reception and posters will then be displayed throughout the following two days. All sessions will be plenary and in English, and will take place in ISU's Boeing Auditorium, with a seating capacity for up to 250 participants.

Symposium Structure

Following the brief Introduction and Keynote Address on the first morning there will be six half-day sessions as outlined on the next page. In Session 1 the majority of papers will be invited talks from leading experts to give a broad international perspective on the security theme. In all subsequent sessions the majority of presentations will be selected from abstracts received in response to this Call for Papers. Each speaker will have 15 minutes to present followed by 5 minutes for brief questions and answers.



KEY DATES

- ◆ **CALL FOR PAPERS**
FRIDAY 25 JULY 2008
- ◆ **DEADLINE FOR ABSTRACTS**
FRIDAY 3 OCTOBER 2008
- ◆ **NOTIFICATION TO AUTHORS**
FRIDAY 31 OCTOBER 2008

- ◆ **PRELIMINARY PROGRAM ISSUE**
Friday 5 December 2008
- ◆ **EARLY REGISTRATION DEADLINE**
Friday 23 January 2009
- ◆ **SYMPOSIUM**
Wednesday 18 – Friday 20
February 2009

Program Outline and Call for Papers

We invite you to submit an abstract of up to 500 words including the title plus the authors' names, affiliations and contact addresses. The deadline for receiving abstracts is 3 Oct 2008 at this e-mail address - symposium13@isu.isunet.edu. You will be notified by 31 October as to whether your contribution has been accepted for oral presentation or offered a place as a poster. Further instructions will be provided to authors later in the year.

The session titles and durations, and the sequence as shown here, should all be regarded as a first indication only. The final program may differ somewhat depending on the number and strength of abstracts received in particular areas of interest. Clearly there is overlap and interaction between civil and military security space activities and, in both areas, the associated space assets are exposed to some of the same threats. However, where it is clear, we would be grateful if you could indicate for which session your abstract is proposed, or if it is intended as a poster.

DAY 1: WEDNESDAY 18TH FEBRUARY

WEDNESDAY MORNING

◆ WELCOME AND KEYNOTE ADDRESS

Following a welcome by ISU's President and an introduction to the Symposium by the Program Chair, the Keynote Address will set the scene for the sessions that follow.

◆ SESSION #1: INTERNATIONAL GOALS AND PERSPECTIVES ON SECURITY

In this session we will invite leading experts to describe how civil, military and dual-use space programs can support individual, national and global security now and in the future.

For subsequent sessions we simply indicate here suggested keywords for the topics presently considered most appropriate for inclusion. Topics which do not fit well under any specific session described below, but which support the 'safe and secure' theme, will certainly be considered.

WEDNESDAY AFTERNOON

◆ SESSION #2: CIVIL SECURITY

- Civil space programs for monitoring of land, oceans, etc.
- Environmental security
- Emergency/crisis management
- Humanitarian aid
- Public health
- Transport security (land, sea, air)
- Civil unrest
- Refugee and migration monitoring
- Security of information

WEDNESDAY EVENING POSTER VIEWING & RECEPTION

DAY 2: THURSDAY 19TH FEBRUARY

THURSDAY MORNING

◆ SESSION #3: HOMELAND AND NATIONAL SECURITY

- Border and port security
- Terrorist attack prevention
- Intelligence gathering, reconnaissance, surveillance.
- Treaty verification
- Arms control/Disarmament
- Peace keeping

THURSDAY AFTERNOON

◆ SESSION #4: MILITARY SPACE AND DUAL USE

- Space aids to warfighting – operations planning, command and control, targeting, etc
- Operationally responsive space
- Transformational space systems
- A-Sat technology and testing
- Technology export restrictions
- Space weaponization
- Emerging space powers

THURSDAY EVENING

CONCERT AND DINNER IN STRASBOURG CENTER

DAY 3: FRIDAY 20TH FEBRUARY

FRIDAY MORNING

◆ SESSION #5: SPACE ASSETS AND THE SPACE ENVIRONMENT

- Natural and man-made hazards (space weather, orbit debris, etc)
- Vulnerability of space assets
- Technical & managerial approaches to safer operation of satellites
- Space situational awareness
- Space traffic management
- Threats from new and emerging trends (swarms of small satellites, commercial space ventures, etc)

FRIDAY AFTERNOON

◆ SESSION #6: MAKING EARTH SAFER AND MORE SECURE

In this final session we aim to explore issues associated with assuring a safer Earth and space environment including:

- The legal framework
- Geopolitical factors including international cooperation
- Economic aspects
- Ethical and moral issues
- Education and outreach

◆ CLOSING ADDRESS (END AT 1700)



Further Information

REGISTRATION FEE (PRELIMINARY)

Before the deadline of 23 January 2009, the early-bird registration fee will be 600 € with reductions for students and ISU alumni. Details will follow in the Preliminary Program in early December 2008.

The fee includes:

- Access to all conference facilities during the Symposium.
- Transport to/from the city center.
- Welcome reception, lunches and refreshments over the three days.
- Symposium Dinner and Concert.
- Book of abstracts.
- CD ROM containing papers and presentations.



ISU LOCATION

The ISU Central Campus is located in the Parc d'Innovation at Illkirch-Graffenstaden in the southern part of Strasbourg Urban Community about 30 minutes from the city center by public transport. Full details of how to get to ISU appear at <http://www.isunet.edu/>.



ACCOMMODATION

ISU has made block bookings at preferential rates at a number of local hotels as listed at our Web site. For a complete list of Strasbourg hotels, contact the local tourist office:

Tel: +33 (0)3 88 52 28 28

Fax: +33 (0)3 88 52 28 29

<http://www.strasbourg.com>

Updated Symposium information

will appear in the coming months at <http://www.isunet.edu/> or e-mail the Organizing Team directly at: symposium13@isu.isunet.edu

STRASBOURG AND ITS SURROUNDINGS

There will be an opportunity to sample some of the delights of Strasbourg itself on the second evening when all participants are invited to join us at a short concert in a historic church before enjoying Alsatian cuisine at the Symposium Dinner. The city and surrounding region offer a range of attractions to suit all tastes throughout the year. Those who don't already know the region (and those who do!) may well be tempted to extend their stay into the weekend to discover more of its character and charm.

Historic and cultural opportunities on offer in Strasbourg are well described at the website <http://www.ot-strasbourg.fr/>. There you will find information on the famous cathedral, the 'European district', where many international institutions are based, and many other interesting places to visit while you are here.



PROGRAM COMMITTEE

CHAIR OF PROGRAM COMMITTEE

- ♦ **Walter Peeters**,
ISU Dean

The Program Committee is being established presently and will include recognized experts in the field of space and security.

ORGANIZING TEAM

- ♦ **John Farrow**,
ISU Resident Faculty and Chair of Symposium Organizing Team
- ♦ **Nadia Repussard**,
Symposium Logistics Coordinator
- ♦ **Caroline Ritter**,
Coordinator for External Relations and Development, ISU
- ♦ **Steve Brody**,
Vice-President, ISU North American Operations
- ♦ **Jim Burke**,
The Planetary Society
- ♦ **Yoshiki Morino**,
ISU Resident Faculty/JAXA
- ♦ **Ian Pryke**,
Senior Fellow, Center for Aerospace Policy Research, George Mason University, USA
- ♦ **Lucy Stojak**,
Consultant, Canada
- ♦ **Nikolai Tolyarenko**,
Director, ISU Master of Space Studies
- ♦ **Ray Williamson**,
Executive Director, Secure World Foundation
- ♦ **Vasilis Zervos**,
ISU Resident Faculty

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