

### Celebrating 50 Years of Excellence

#### JN COPUOS

Vienna Austria

### Intl Academy of Astronautics 9 June 2011 & Intl Cooperation



Space for Humanity

Dr. Jean-Michel Contant & Dr. Claudio Maccone

#### IAA

an independent international community of 1200 active leading experts recognized by the UN in 1996.

Membership access based on highly competitive election www.iaaweb.org

IAA leadership through
high ranking Board of Trustees
(7 Heads of Space Agencies)
Six commissions covering all
aspects of space activities.

Offers the missing fora where the best experts in all domains can meet, know each other and exchange their opinions.

### **Space Pioneers as IAA Academicians**



IAA
Academician
Mikhail
Tikhonravov in
Russia
with Sergey

**Koroley** 

IAA Academician Valentin Petrovich Glushko in Russia



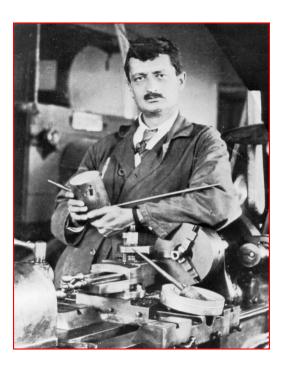
## **Space Pioneers**

IAA Academician Hermann Oberth (1894-1989)

Born in Sibiu
Lived and worked in Mediash







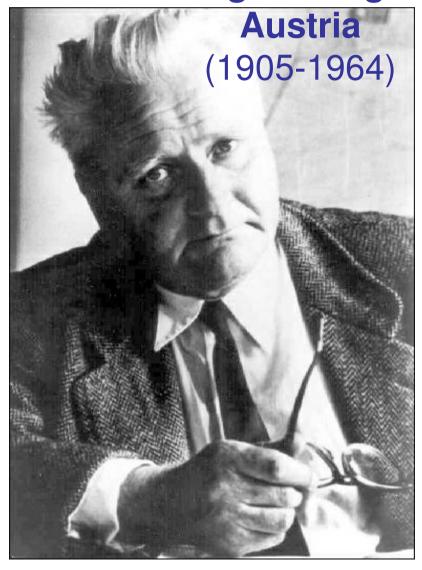


## **Space Pioneers**

IAA Academician Irene Sänger-Bredt



IAA Academician Eugen Sänger

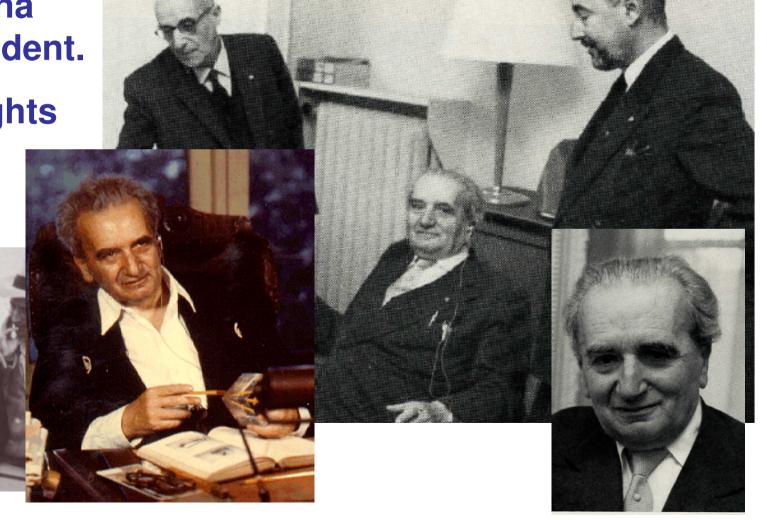


# The International Academy of Astronautics (IAA) Founded in Stockholm August 16, 1960

Theodore von Karman First IAA President and Frank J. Malina Second IAA President.

Historic JATO flights

in 1941 (JPL).



# ASTRONAUTICA Gram

First
Issue
Astronautica
Acta
1955

Later
Renamed
Acta
Astronautica

The Journal of the International Academy of Astronautics

## ACTA

OFFIZIELLES ORGAN DER INTERNATIONALEN ASTRONAUTISCHEN FÖDERATION OFFICIAL JOURNAL OF THE INTERNATIONAL ASTRONAUTICAL FEDERATION

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# Three IAA Past Presidents and current President



# IAA Board of Trustees President Dr. Madavan Nair, India

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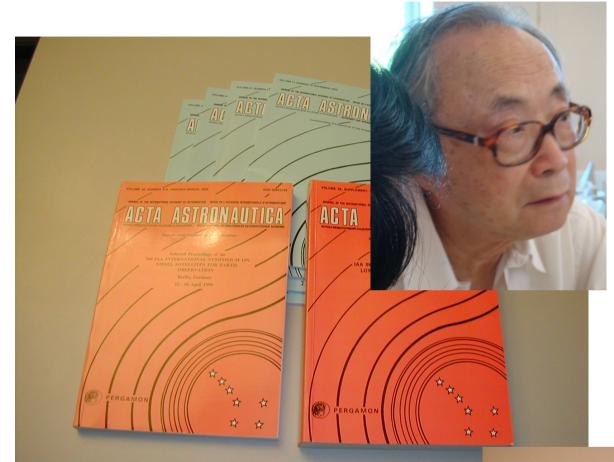
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- Prof. Liu Jiyuan, China
- Prof. Hiroki Matsuo, Japan
- Dr. Yannick d'Escatha, France

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Dr. Jean-Michel Contant, France



### Publications: Acta Astronautica



Prof. Liu Jyuan
Vice-President
Publications &
Communication

1<sup>st</sup> time a Vice-President from China

2000 pages a year.
Covers space science,
engineering, life science
and social science

Acta Astronautical Astronautical Acta Astronautical Acta Astronautical Acta Astronautical Acta Astronautical Acta Astronautical Acta Astronautical

## **Top Ten IAA Membership**

Country	2011	2000
USA	278	279
Russia	157	172
France	124	133
Germany	100	84
China	69	50
Japan	55	56
Italy	41	24
India	36	13
UK	30	33
Ukraine	29	12



IAA Academician Giovanni Bignami, during the Award Ceremony in Washington DC, Nov 2010

**Number of IAA Academician** 

Membership: Access by Election About 50 new members elected each year from all over the world Corresponding Member (<5 years) Member (Lifetime)

www.iaaweb.org

IAA is arranged in four sections to reflect the majo disciplines:

Basic Sciences, Engineering Sciences, Life Sciences and Social Sciences.

#### THE THEODORE VON KARMAN AWARD

The premier and the most prestigious award of the Academy.

Given annually to recognize outstanding lifetime achievements in any branch of science. Honors the memory of the Academy's founder and first President, a scientist of the highest international reputation

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William Pickering, USA
Karl E. Klein, Germany
Alexei A. Leonov, Russia
Cornelis de Jager, Netherlands
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## **LAURELS 2009: SEA LAUNCH**



## **Up to 20 IAA Stand Alone Conferences Yearly**

**Bejing** 





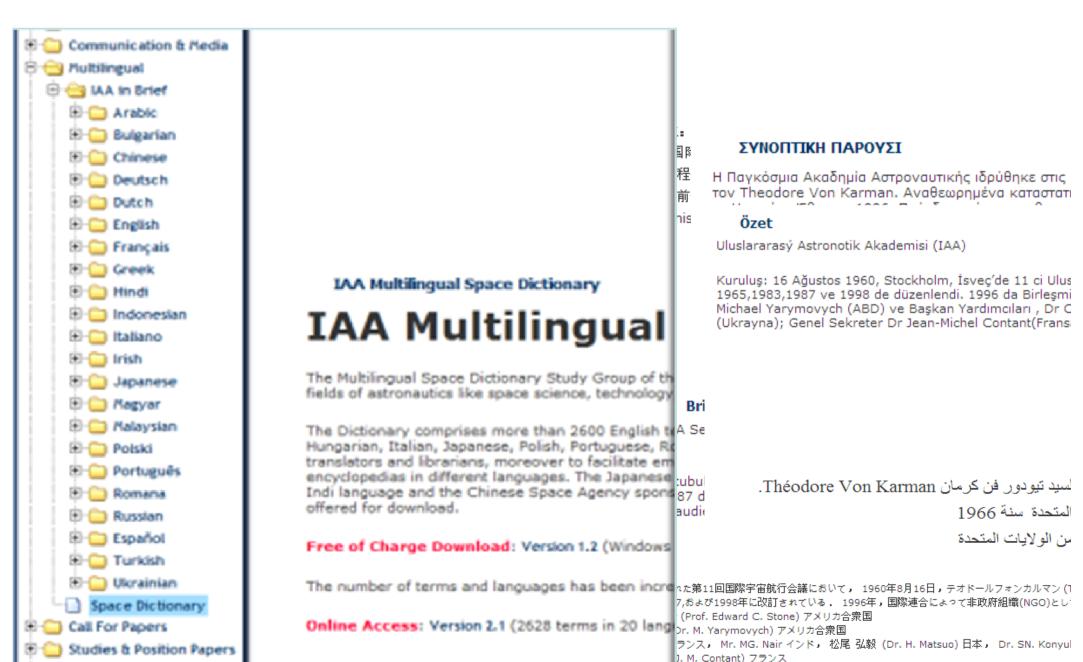
#### IAA at United Nations

- The International Academy of Astronautics
  - Made IAA studies presentations regularly.
  - Distributed studies to each delegation.



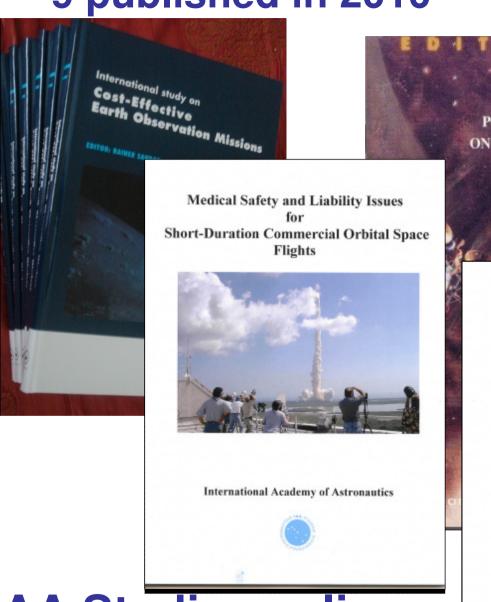


# Space Dictionaries free of charge http://iaaweb.org/content/view/362/510/



42 studies in preparation as of April 2011

9 published in 2010

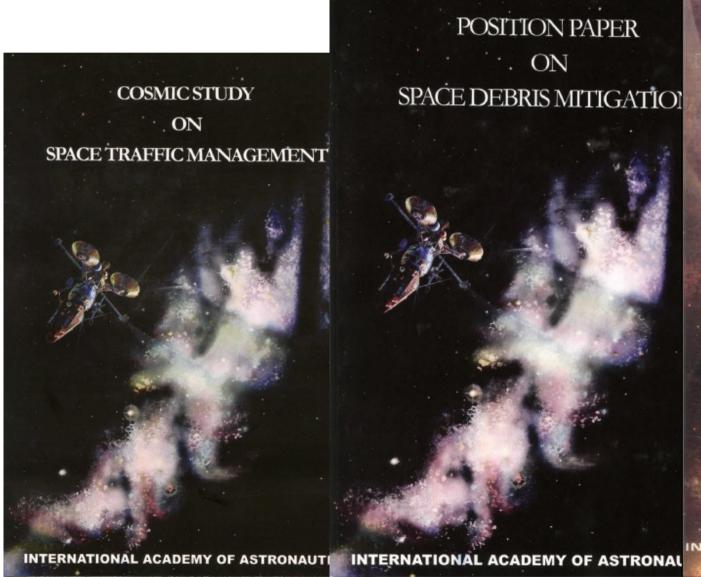


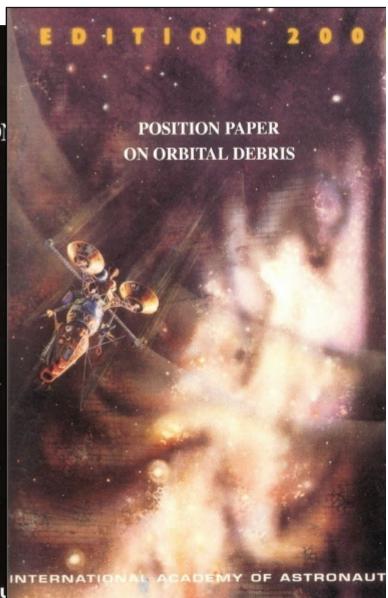
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INTERNATIONAL ACADEMY OF ASTRONAUTICS

IAA Studies online full text iaaweb.org

# Four IAA Studies Related to the Space Debris





# Axis of IAA Development in the World Opening IAA Secretariat new Branches.

 Bangalore (February 2010) in charge of the IAA conferences, software development phase.



### **Axis of IAA Development in the World**

#### **Opening new IAA Studies Center**

 Beijing (May 30, 2010) in charge of the IAA studies preparation and new Study Center

creation

Unveiling Ceremony
of the new IAA Study
Center in Beijing:
from left to right:
Academicians
Ma Xingrui, CASC,
JM Contant, IAA,
Xu Guanhua, IAA
Trustee and former
Minister MOST, and
representative from
CNSA



#### **Axis of IAA Development in the World**

- New projects of global scale
   Disaster Management IGMASS satellite constellation,
- Data Exchange in Remote
   Sensing, Earthquake Prediction



IAA Academician Anatoly Perminov, Head of Roscosmos and Chair of the IAA IGMASS Project, in Cyprus, 2009

- Life Science spinoff Telemedicine for Africa
- IAA Sustainable Program for small satellites:
- Cameroon
- Nigeria
- Tunisia
- Vietnam

# 30 Heads Space Agencies historic SUMMIT, Nov. 17<sup>th</sup>, 2010.



# 30 Head of Space Agencies Summit November 17<sup>th</sup>, 2010, in Washington D.C., on the occasion of IAA 50<sup>th</sup> Anniversary

How to balance new aspirations and challenges with existing programs/budgets and national interests/needs?

How to cooperate while partners number triple?

How to build confidence, trust, transparence?

How to exploit responsible use of space ISS to increase new cooperation?

### IAA a Unique Elite Body to be Catalyst for new Scale Cooperation "Together to Space to Enrich all on Earth"

To convince political decision makers.

To imagine space cooperation for the new generations.

#### The Academy continues to FOCUS on:

- Robotic Space Exploration
- Human Spaceflight
- Disaster Management
- Climate Change

# 2011: IAA Group for Summit Follow-on Towards Cooperation on a Larger Scale

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# Thank you sgeneral@iaamail.org

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