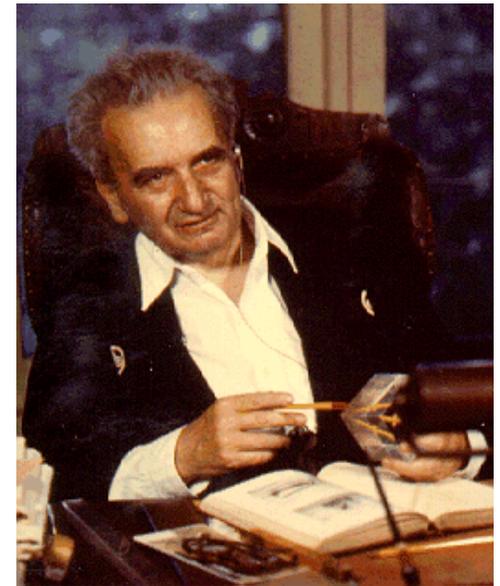


# The International Academy of Astronautics



Space for Humanity

**Dr. JM Contant**  
Secretary General  
[www.iaaweb.org](http://www.iaaweb.org)



**Theodore von Karman**  
Founder & 1<sup>st</sup> President



**Vienna**  
**02 19 2013**



**Gagarin Honorary Member**

**16 June 1963**

**Valentina Tereshkova  
IAA Honorary Member**

**First Women  
Cosmonaut**



2009 in

**Kremlin April 2011**



**March 1965**

**Alexei Leonov**

**IAA member**

**First Space Walk**



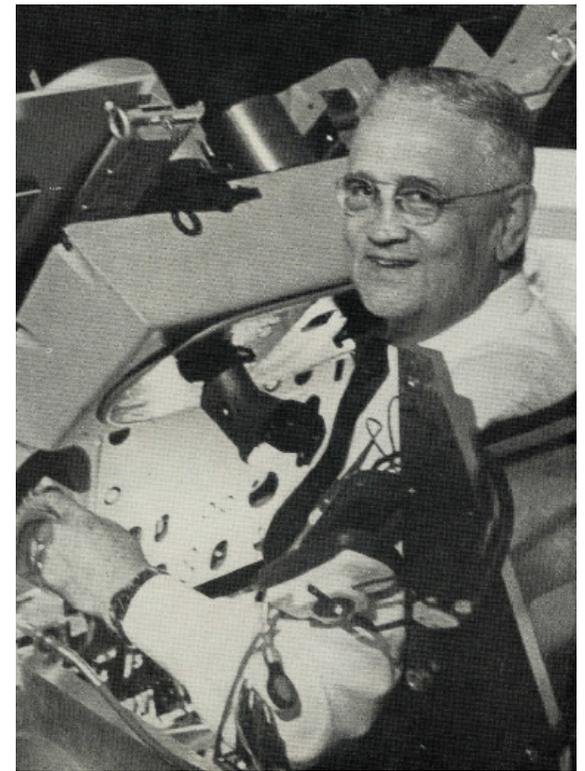
**Kremlin April 2011**



**Space Pioneers and IAA:  
First US satellite, Explorer 1: radiation belt theorized  
during International Geophysical Year.**



**S. Draper IAA President**



**Starting from left side: IAA Academicians William Pickering, James Van Allen, Wernher von**

# Some Famous IAA Academician Names



**Tikhonravov**

**Leonid Ivanovitch Sedov**

**Valentin Glushko**

**Luigi Napolitano**

**Gerard Kuiper**

**Antony Oppenheim**

**Harry Guggenheim**

**Hugh L Dryden**

**Roald Sagdeev**

**Maxime Faget**

**Carl Sagan**

**John Glenn**

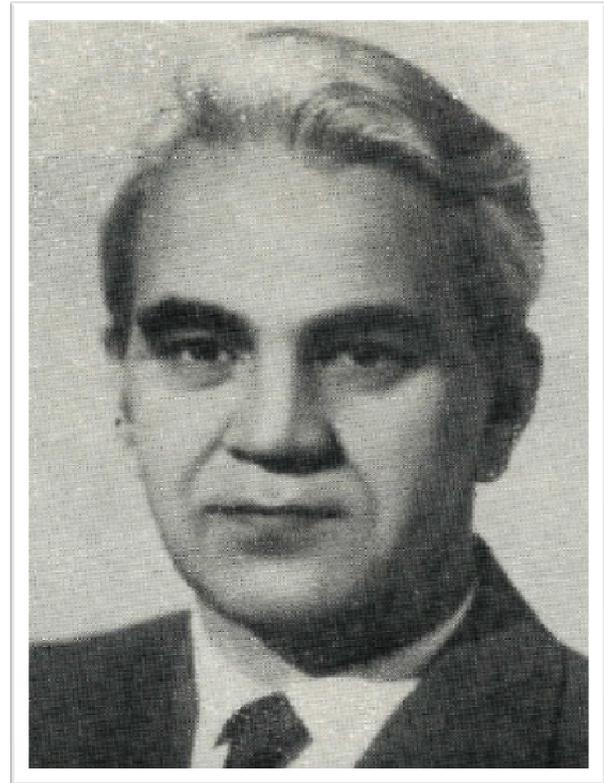
**von Euler**

**Lozino-Lozinsky**

**Chelomey**

**Vladimir Barmin**

**V. Kotelnikov**



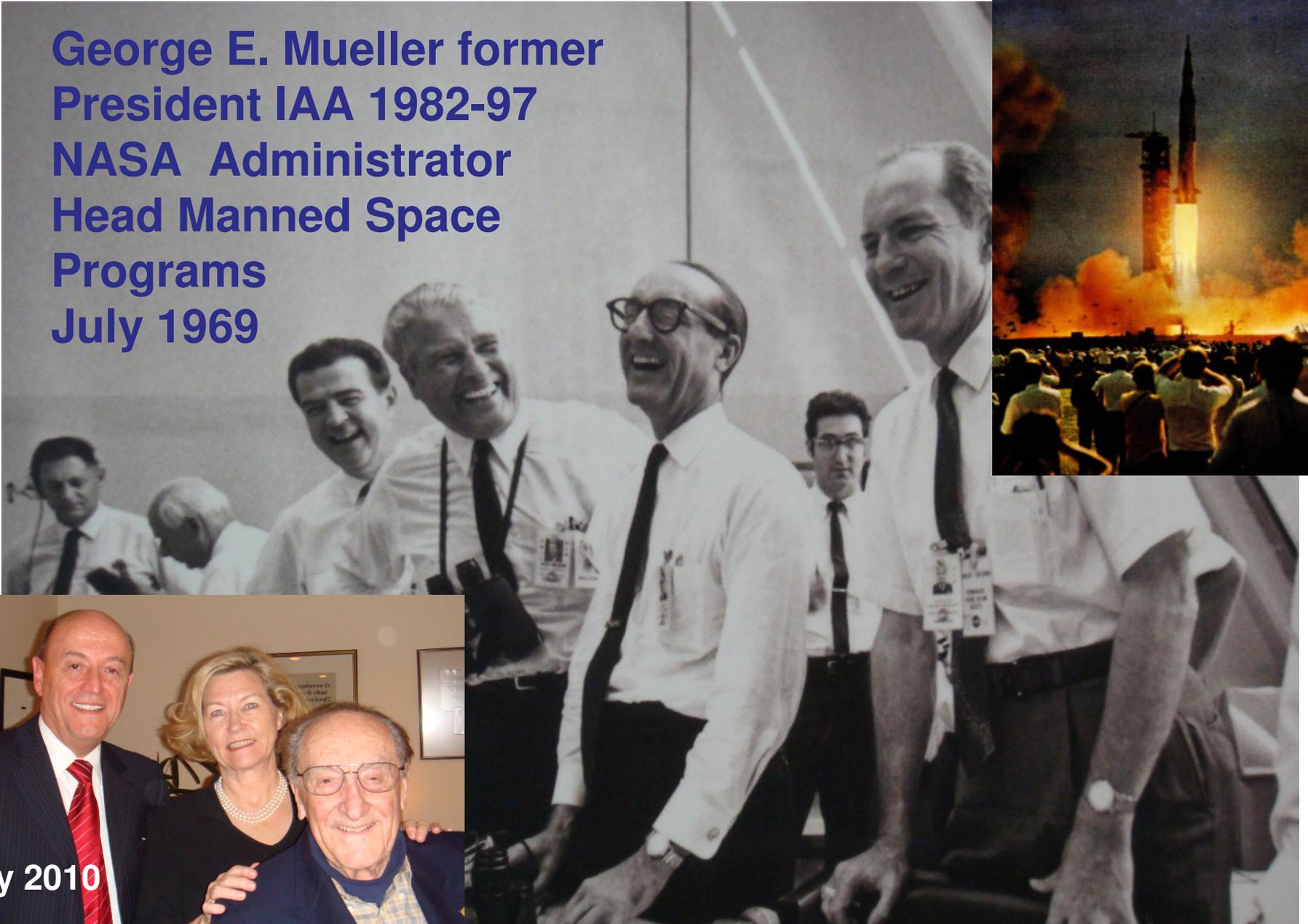
**M. V. Keldysh**

**J. A. Van Allen,  
Guggenheim Award 1962**

**Guggenheim Award  
1965**

# First Man on the Moon

George E. Mueller former  
President IAA 1982-97  
NASA Administrator  
Head Manned Space  
Programs  
July 1969



May 2010

# Successful Entry of China: 2003 Shenzhou V carrying China's first human in space, Yang Liwei, Academician



# IAA

an independent international community  
of 1200 active leading experts  
(1700 from 89 nations)  
recognized by the UN in 1996.

membership access based on highly  
competitive election

# IAA Membership

## Top Ten

Country	Nb
USA	260
Russia	153
France	115
Germany	98
China	83
Japan	57
Italy	41
India	36
UK	30
Ukraine	30

## In Africa

Nigeria	11
Tunisia	5
Cameroon	3
Egypt	2
Morocco	2
South Africa	2
Ethiopia	1
Ivory Coast	1
Burkina Faso	1
Senegal	1
Libya	1
Congo	1
Algeria	1



Number of IAA Academician

Nigeria

# 18 to 20 IAA Stand Alone Conferences Yearly

Bangalore



Tunisia



Ukraine



Moscou



Fukuoka





## IAA Secretariat Branches

- Bangalore
- Beijing

Opening IAA Nodes (Regional Centers)  
Abuja (Nigeria) Buea (Cameroon)  
Nairobi (Kenya) Tunis (Tunisia)



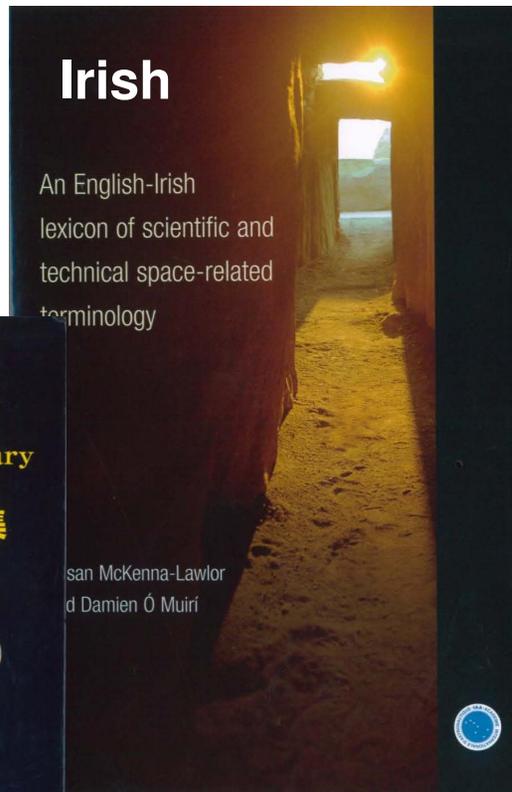
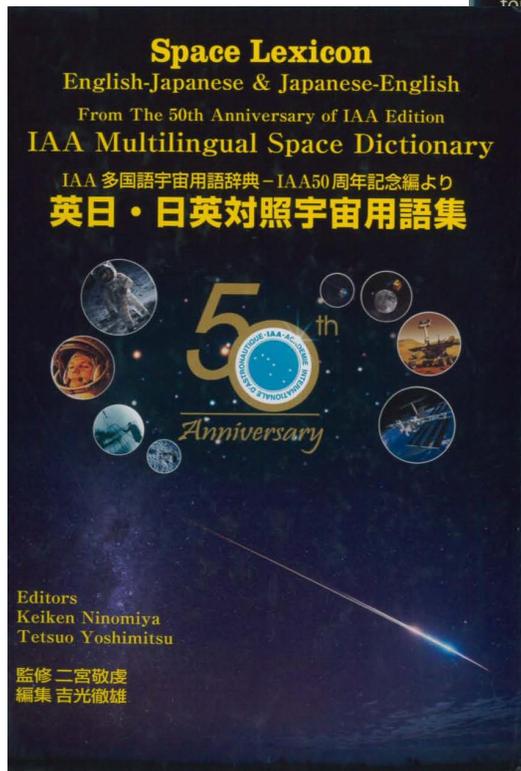
# The Next 50 Years of Terminology

Afrikaner

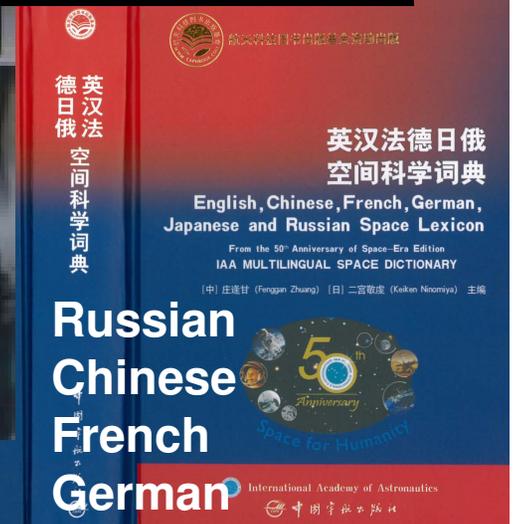
Swahili  
ready for  
print

Irish

An English-Irish  
lexicon of scientific and  
technical space-related  
terminology



Indonesian



# 52 studies published, 10,000 downloads

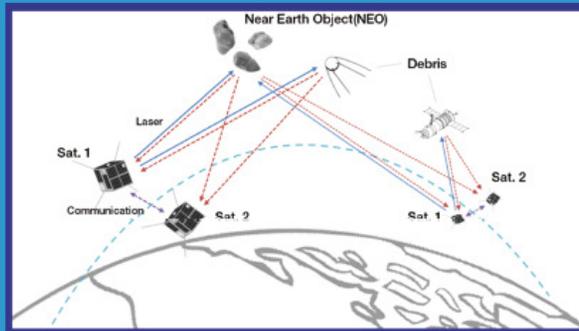


**IAA Studies online  
full text [iaaweb.org](http://iaaweb.org)**

# IAA New Publications

## 3 new Book Series in 2012

### Novel Ideas for Nanosatellite Constellation Missions



Rainer Sandau, Shinichi Nakasuka,  
Rei Kawashima, Jerry Sellers (Editors)

International Academy of Astronautics  
IAA Book Series  
Small Satellite - Programs, Missions,  
Technologies and Applications



### Digital Airborne Camera Introduction and Technology



Rainer Sandau (Editor),  
Xuan Wenling (Translator)

International Academy of Astronautics  
IAA Book Series  
Remote Sensing of the Earth System - Science,  
Technologies and Applications



### Proceedings of the 1st IAA Conference on University Satellite Mission & Cubesat Workshop



Filippo Graziani, Chantal Cappelletti (Editors)

International Academy of Astronautics  
IAA Book Series  
Conference and Symposium Proceedings



<https://shop.iaaweb.org>

# Heads of Space Agencies Summit Studies in 2010

Space Applications in Climate Change and Green Systems: The Need for International Cooperation

**SPACE-APPLICATIONS IN CLIMATE  
CHANGE AND GREEN SYSTEMS:  
THE NEED FOR  
INTERNATIONAL COOPERATION**



International Ac

**FUTURE PLANETARY ROBOTIC  
EXPLORATION: THE NEED FOR  
INTERNATIONAL COOPERATION**



**International Academy of Astronautics**



**SPACE-BASED DISASTER  
MANAGEMENT: THE NEED FOR  
INTERNATIONAL COOPERATION**



**International Academy of Astronautics**



**FUTURE HUMAN SPACEFLIGHT:  
THE NEED FOR  
INTERNATIONAL COOPERATION**



**International Academy of Astronautics**



# Historic 30 Heads Space Agencies with Significant Impact on IAA Future



# Dedicated Heads of Space Agencies Summit Follow-on Meetings in 2012

Kiev



Mysore



Naples





**14 Heads of Space Agencies September 30, 2012**



# **IAA SUMMIT DECLARATION**

## **Human Spaceflight**

- **Support the Intl Space Exploration Group**
- **Need to maintaining human space exploration**
- **Importance of the International Space Station;**
- **Support a common interoperability policy**
- **Welcome enabling technologies**
- **Importance of research on human factors**
- **Support sustainable Human Exploration Program**
- **Invite emerging space nations to cooperate.**



# **IAA SUMMIT DECLARATION**

## **Planetary Robotic Exploration**

- Expand efforts in understanding our Solar System and pave the way for human exploration;**
- Focus scientific exploration goals mutually supportive**
- Strive to make opportunities for collaboration**
- Explore collaborations in which two or more agencies share significant joint responsibility for missions with multiple flight elements**
- Seek ways to robotic explorers for expanded human exploration through critical knowledge of destinations and validation of technologies.**

# **IAA Catalyst for new Scale Cooperation Objectives**

- **Foster global cooperation within countries with particular emphasis to involve space emerging countries, new space agencies, and developing countries**
- **Produce strategically relevant results**
- **Contribute to the content of IAA regional meetings and standalone conferences**
- **Provide for the first time the opportunity to all members of the Academy to participate in an IAA endeavor**
- **Impulse new IAA activities: human & robotic spaceflight**
- **Foster activities in cooperation with different IAA Summit coordinating groups**

# **SAVE THE DATE**

## **Heads of Space Agencies Summit**

### **Washington DC, January 9-10 2014**



**The goal of the 2014 Summit is to reach a broad consensus on international cooperation at the highest level and encourage new concrete initiatives of cooperation in space exploration documented by new IAA studies:**

- Planetary Robotic Exploration**
- Human Spaceflight**



**Thank you**

**[summit@iaaemail.org](mailto:summit@iaaemail.org)**

**Photo Credit**

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Szalkay, J Tiziou/Sygma, CBS News,  
AIA, Jaxa, CALT, Peenemunde Museum,  
Beijing Tianjin Museum,**