



UNITED NATIONS
Office for Outer Space Affairs

UNOOSA CAPACITY-BUILDING PROGRAMME ON SPACE LAW

**UN/Thailand Workshop on Space Law
Bangkok, Thailand
16-19 November 2010**

Niklas Hedman, UNOOSA



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UNOOSA capacity-building programme on space law

Series of Space Law Workshops: 2002 in The Netherlands; 2003 in the Republic of Korea; 2004 in Brazil; 2005 in Nigeria; 2006 in Ukraine; 2009 in Iran; 2010 in Thailand

Space Law Website:

Treaty status database and national space legislation database

Bilateral and multilateral agreements database

Directory on education opportunities in space law

Technical legal assistance, including on UN Register

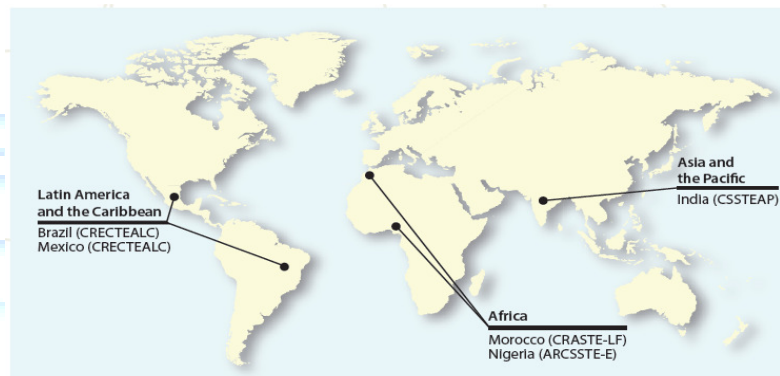
Development of curriculum on space law for Regional Centres



Regional Centres

Four Regional Centres for Space Science and Technology Education, affiliated to the United Nations

- www.cssteap.org (Centre in India)
- www.enssup.gov.ma/craste (Centre in Morocco)
- www.arcsstee.org (Centre in Nigeria)
- www.crectealc.org (Centre in Mexico/campus)
- www.inpe.br/unidades/cep/atividadescep/crectealc (Brazil campus)



Education curricula and education modules have been developed for:



- In preparation: Space Law, GNSS

"Bringing the benefits of space to humankind"



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Regional Centres

Core disciplines (9 month postgraduate courses):

Remote Sensing and Geographic Information Systems
Satellite Communications
Satellite Meteorology and Global Climate
Space and Atmospheric Sciences

Two further disciplines:

GNSS
Space Law



Curriculum on Space Law

Two complementary structures of modules:

Module 1

- all the fellows irrespective of course being taken

Module 2 through 5

- module directly relevant to course being taken by the fellows



Structure of the Curriculum

Module 1: Basic concepts of international law and space law

Module 2: International law and other regulations applicable to remote sensing and geographic information systems; satellite meteorology and global climate

Module 3: International law and other regulations applicable to satellite communications

Module 4: International law and other regulations applicable to space and atmospheric sciences

Module 5: International law and other regulations applicable to global navigation satellite systems (teaching module under development)



Module 1: Basic Concepts of International Law and Space Law

- **Introduction to international law**
- **International space law treaties and Principles and other relevant topics (1721B, radio frequencies and GSO etc)**
- **Important concepts specific to space law**
- **National regulation of space activities**
- **Commercial and private use of outer space**
- **Multilateral and bilateral agreements**
- **International intergovernmental organisations related to space activities (COPUOS, ITU, International satellite organisations)**
- **Settlement of disputes**



Module 2: Remote sensing & GIS and Satellite Meteorology and Global Climate

- **International space related (OST, RS Principles, UN-SPIDER, WMO, Space Benefits Resolution, etc)**
- **National space related (Canada, France, Germany, USA, etc)**
- **Global (Protection of Ozone Layer Convention, Montreal Protocol, Kyoto Protocol, etc)**
- **Bilateral and Multilateral Agreements**
- **Sources of Data (Civil government systems, Private commercial systems, Public-Private Partnership commercial systems, Databases, Archives)**



Module 3: Satellite Communications

- **Radio frequencies and orbital positions**
- **International and national regulations**
- **ITU Constitution, Convention and Radio Regulations**
- **Selection of appropriate radio frequencies and orbital positions**
- **Harmful interference and resolution of interference**
- **National laws and regulations, technical standards**
- **National licensing and regulation of operation of satellite services**
- **World Trade Organization regulations, Global Mobile Personal Communication Services (GMPCS) procedures, regulation of direct satellite broadcasting contents**



Module 4: Space and Atmospheric Sciences

- Basic Concepts (Institutions, General Principles, International Co-operation)**
- International Legal Regime Governing the Conduct of Space Activities (Radiocomm, Earth Observation, NPS, Liability, Ethics)**
- International Legal Status of the Extraterrestrial Cosmic Environment (preservation of unique environment)**
- Freedom of Space Exploration and Research, International Protection of Scientific Results and Data**
- International Co-operation in Space Exploration and Research (UNESCO, WMO, COSPAR, IAU, IAF, IAA)**
- Bilateral and Multilateral Space Co-operation Agreements**



Module 5: GNSS

- **GNSS Technology, Dual Use Technology, Augmentation of GNSS**
- **Different Classes of GNSS Services (Standard, Precise)**
- **GNSS Institutions (Int'l, National)**
- **Legal Regimes (Int'l, National)**
- **GNSS Providers (US, Russian Federation, Europe, China, India and Japan)**
- **GNSS Legal issues (continuity, financing, universal access, sole use etc), Legal Rights of Privacy, Legal Protection of GNSS Data**
- **International Trade Issues**



Resources

List of resources in the public forum

- Text books
- Other references and resources

Languages

- English
- French
- Spanish
- Other official languages of the United Nations



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THANK YOU!

**Office for Outer Space Affairs
United Nations Office at Vienna
Email: oosa@unoosa.org
Tel: +43-1-26060-4950
Fax: +43-1-26060-5830
Website: www.unoosa.org**

