

Challenges in Using the UN Curricula at Universities and in Online Courses

United Nations/Austria Symposium
Access to Space: Holistic Capacity-Building for the 21st Century
Graz, Austria
September 3 to 7, 2017

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Overview

- **Education opportunities in space law**
- **Challenges**
- **Role of the Regional Centers**
- **Concrete projects for UNISPACE+50**

Education opportunities in space law

- **Education Opportunities in Space Law: A Directory**
 - Published annually by UNOOSA
 - Latest edition UN Doc A/AC.105/C.2/2017/CRP.10 (23 March 2017)
- **Full-time programmes**
 - LL.M. at the University of Leiden (NL)
 - LL.M. at McGill University (CAN)
 - LL.M. at University of Lincoln (USA)
 - M.A. in Space Policy at George Washington University (USA)
 - Master in Space Law and Telecommunications Law at University of Paris Sud-XI (F)
 - Master in Space Law at Beihang University (China)

Education opportunities in space law (2)

- **Courses offered during “normal” law studies**
 - Advantage: no extra costs
 - Disadvantage: duration of minimum 2 years
 - Generally **not accessible to space scientists and engineers**
- **Block programmes**
 - ECSL Summer Course on Space Law and Policy
 - For students and young professionals
 - Majority of students are law students
 - Outside Europe?

Space Law in Austria

- **University of Vienna**
 - No special programme
 - Elective courses for law students
 - 1 or 2 hours per week, sometimes in a block of 2 weeks
 - Taught in English, ~ 40 participants
 - Erasmus and international students 50%
- **University of Graz**
 - No special programme
 - Seminar at Faculty of Law on “Space Law and Space Policy”
 - Once a year (10 ECTS)
 - Taught in English, max. 35 participants

Challenges (1): Students/target group

- **Law students**
 - Benefit from specialization and elective courses
 - LL.M. programmes duration of 1 to 2 years, substantial costs
 - Limited professional opportunities, small market
- **Engineering students**
 - Lack of awareness for the need to study law
 - Investment of time and money substantial
- **Professional technical staff and managers**
 - Increased awareness of the need to study law
 - Problem of time

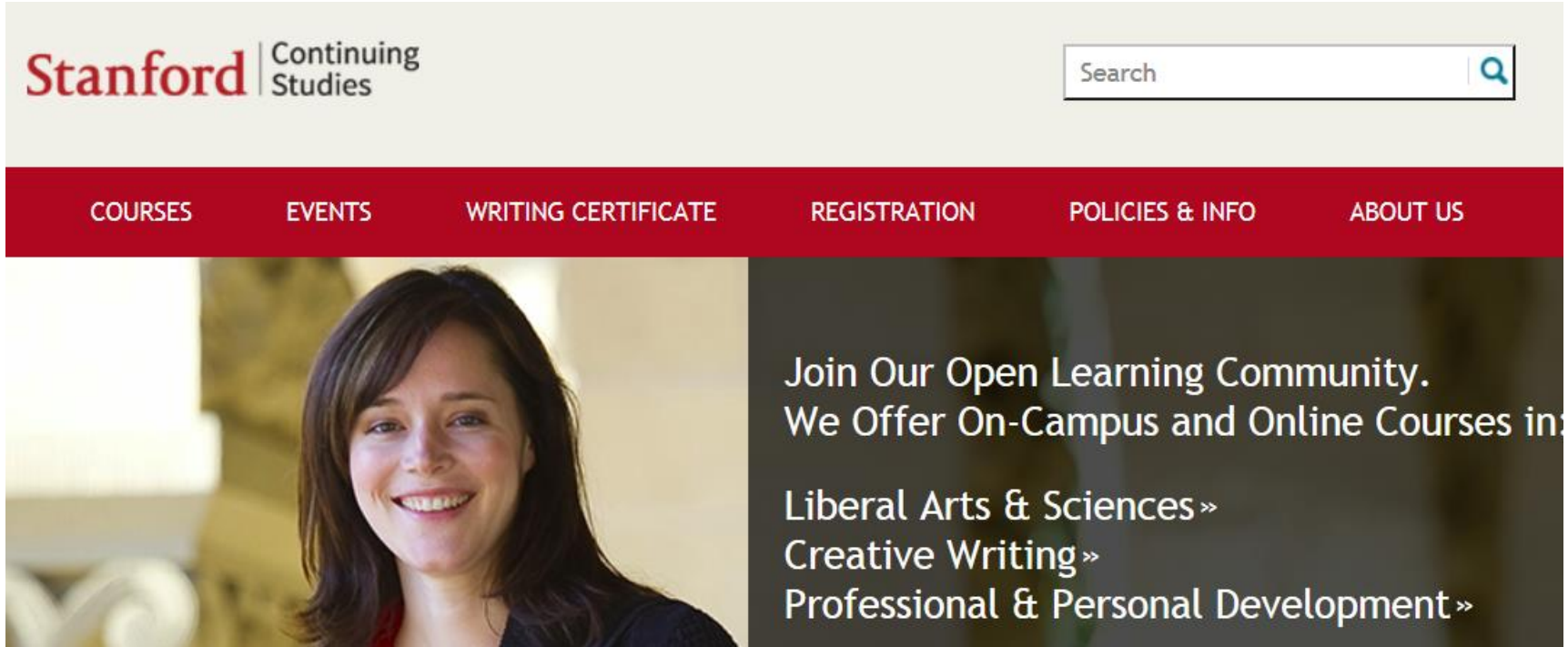
Challenges (2): Awareness of importance of space law

- **Registration**
 - Example of GhanaSat-1 with the help of UNOOSA
 - What about other satellites? Capacity building is needed
- **Liability**
 - Is on “launching State” – Who is the launching State?
- **Authorization**
 - The “appropriate State” has to authorize – Who is the appropriate State?
- **Space Debris**
 - Compliance with Space Debris Mitigation Guidelines

Awareness of importance of space law (2)

- **Frequency allocation**
 - ITU coordination necessary
 - Amateur frequencies often misused
- **Dual use**
 - Almost all space objects and activities are dual use
 - Strict legal rules on export control (ITAR, European Regulation)
- **Human rights**
 - Rules on privacy and dataprotection
- **Contractual issues**

Challenges (3): Logistics and Finance



The image shows a screenshot of the Stanford Continuing Studies website. At the top left is the Stanford Continuing Studies logo. To the right is a search bar with the word "Search" and a magnifying glass icon. Below this is a red navigation bar with white text links: COURSES, EVENTS, WRITING CERTIFICATE, REGISTRATION, POLICIES & INFO, and ABOUT US. The main content area features a large portrait of a smiling woman on the left. To her right, on a dark background, is the text: "Join Our Open Learning Community. We Offer On-Campus and Online Courses in Liberal Arts & Sciences» Creative Writing» Professional & Personal Development»".

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COURSES EVENTS WRITING CERTIFICATE REGISTRATION POLICIES & INFO ABOUT US

Join Our Open Learning Community.
We Offer On-Campus and Online Courses in

Liberal Arts & Sciences»
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BUS 213 — Principles of Product/Market Fit

Quarter: Fall

Day(s): Wednesdays

Course Format: On-campus course

Duration: 6 weeks

Date(s): Sep 27—Nov 1

Time: 7:00—8:50 pm

Drop Deadline: Oct 10

Unit: 1

Tuition: \$450

Instructor(s): Edwin Oh

Status: Open

Space Law Course: 20h/week

2 weeks → \$ 1500

3 weeks → \$ 2250

 Add to cart

Finance on-campus course

For organisers	For students
Salaries of teachers	Tuition
Material preparation	Books
Accommodation	Accommodation + food
Travel costs	Travel costs
Organisation/administration	

BUS 167 W — Mapping Your Path to Career Satisfaction

Quarter: Fall

Course Format: Online course (System Requirements)

Duration: 8 weeks

Date(s): Sep 25—Nov 17

Drop Deadline: Sep 28

Unit: 1

Tuition: \$490

Addtl. Fee: \$30 (non-refundable)

Limit: 35

Instructor(s): Kathleen Sexton

Status: Open

Please Note: Online courses have a new refund policy. The full tuition refund deadline for this course is 9/28 at 5:00 pm (PT); 50% tuition refund deadline is 10/3 at 5:00 pm (PT).

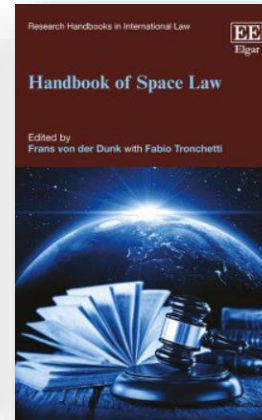
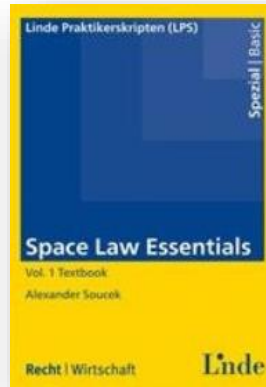
 Add to cart

Finance online course

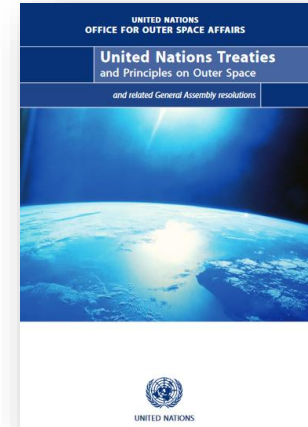
For organisers	For students
Salaries of teachers	Tuition
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Challenges (4): Teaching material

Textbooks



Primary texts



Role of UN Education Curriculum on Space Law?

Challenges (5): Teachers

- **Faculty at Law School**
 - Public international law
 - Private and commercial law
 - Technology law
- **Visiting professors**
 - Short term
 - Long term
- **Practitioners**
 - Guest lecturers
 - Responsible for a whole course

Role of the Regional Centres for Space Science and Technology Education affiliated to the United Nations?

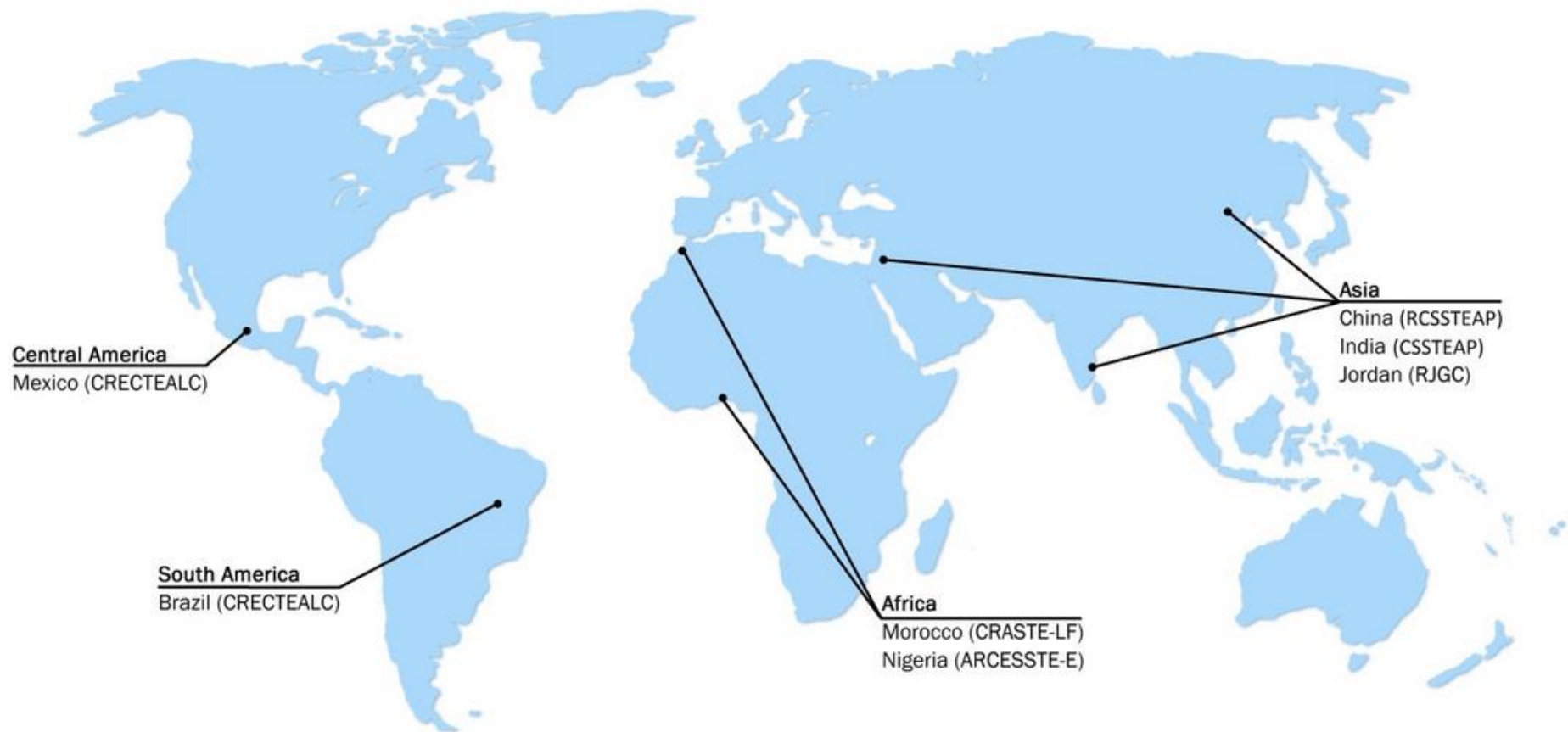
UNITED NATIONS
OFFICE FOR OUTER SPACE AFFAIRS

Capacity-building in space science and technology

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



Regional Centres for Space Science and Technology Education
(affiliated to the United Nations)



Concrete Project for UNISPACE+50

- **Increase access to existing space law programmes**
 - Engineering students and professional technical staff and managers
 - Scholarships?
 - Time?
- **Develop programmes at Regional Centres**
 - With or without partner universities?
 - What kind of material is needed?
 - Role of the UN Education Curriculum on Space Law?

Thank you!

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