

**28th ECSL Summer Course on Space Law and Policy:
Outer Space and Disaster Management**

2nd September – 13th September 2019

Messina, Italy

Monday 2nd September: Introduction to Summer Course/ International Space Law		
Location: Rettorato University of Messina - Aula Magna - 1st Floor		
Address: Piazza Pugliatti, 1- Messina, Italy		
TIME	SEMINAR	SPEAKER
08:15 – 09:00	Bus to Rettorato	
09.00 – 09.45	Words of Welcome & Overview of Summer Course	Salvatore Cuzzocrea, Rettore of Messina University Sergio Marchisio, ECSL Chairman Lina Panella, University of Messina Franco Astone, Dean of Department of Law Mario Calogero, Dean of Political and Juridical Sciences Chehineze Bouafia, ECSL Executive Secretary Giulia Colavecchio, University of Messina
09.45 – 10:30	Recent Developments in International Cooperation within the Space Sector	Sergio Marchisio, Sapienza University and ECSL Chairman
10:30 – 11.00	Break	
11.00 – 12.00	50 years of the Outer Space Treaty	Sergio Marchisio, Sapienza University and ECSL Chairman
12.00 – 13.15	Lunch	
13.15 – 14.15	Liability Convention, Registration Convention and Rescue and Return Agreement	Armel Kerrest, University of Western Brittany
14.15 – 15.00	1969 – 2019 : Legal perspectives of Man on the Moon	Sergio Marchisio, Sapienza University and ECSL Chairman
15.00 – 15.30	Break	
15.30 – 16.15	Non-Legally Binding Instruments for Outer Space	Christian Brunner, University of Graz
16.15 – 16.30	Information	
16.30 – >	Bus to Accommodation	
20.00 – 22.30	Welcome Reception Address: Bar Club House Terrazza, Cittadella universitaria Annunziata	

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Tuesday 3rd September: Europe and Italy in Space		
Location: Università degli studi di Messina - Dipartimento di Scienze Veterinarie – Aula Magna		
Address: Polo Universitario dell'Annunziata - 98168 Messina ME, Italy		
TIME	SEMINAR	SPEAKER
09.00 – 09.45	ESA Presentation	Frank Riemann, ESA
09.45 – 10.45	The EU in space	Jan Wouters, KU Leuven
10.45 – 11.00	Break	
11.00 – 12.00	The Global Space Economy and the UK Legal and Regulatory Framework for Space Activities	Nicholas Puschman, Bird & Bird (remote lecture)
12.00 – 13.00	The French Law on Space Operations	Armel Kerrest, University of Western Brittany
13.00 – 14.00	Lunch	
14.00 – 14.45	Human Rights in Space Activities : the European Case	Gianfranco Gabriele Nucera, Sapienza University
14.45 – 15:30	The Scientific Cooperation between Italy and Kenya: a Model for Space Cooperation	Fabio Santoni, Sapienza University
16.00 – 16.30	Information	
18.30 – 20.30	Scavenger hunt around Messina	

Wednesday 4th September: Cooperation, Trends and Legal Challenges in Space (1)		
Location: Università degli studi di Messina - Dipartimento di Scienze Veterinarie – Aula Magna		
Address: Polo Universitario dell'Annunziata - 98168 Messina ME, Italy		
TIME	SEMINAR	SPEAKER
09.30 – 10.30	From the ISS to Lunar Gateway: the ISS, an established framework	Andre Farand, ESA
10.30 – 11.00	Break	
11.00 – 12:00	From the ISS to Lunar Gateway: Lunar Gateway, new challenges	Andre Farand, ESA
12.00 – 13.00	Legal aspects of space resource exploration, exploitation and utilization	George Kyriakopoulos, Athens University
13.00 – 14.00	Lunch	
14.00 – 15.00	Space, Defence and Security	George Kyriakopoulos, Athens University
15.00 – 16.00	The future of Space Transportation	Jocelyne Briec, ArianeGroup
16.00 – 16.30	Break	
16.30 – 17.30	Suborbital flights	Eloi Petros, ArianeGroup
17.30 – 18.00	Information	

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Thursday 5 September: Cooperation, Trends and Legal Challenges in Space (2)		
Location: Università degli studi di Messina - Dipartimento di Scienze Veterinarie – Aula Magna		
Address: Polo Universitario dell'Annunziata - 98168 Messina ME, Italy		
TIME	SEMINAR	SPEAKER
09.15 – 10.00	An example of EU/ESA cooperation : Copernicus within the H2020 context	Lesley Jane Smith, Leuphana University
10.00 – 11.00	Outer Space as a Global Commons: the issue of Space Debris	Francesca Pellegrino, CUST
11.00 – 11.30	Break	
11.30 – 12.15	Industrial Cooperation in Europe	Angelo Fontana, AVIO
12.15 – 13.15	Lunch	
13.15 – 14.00	Space Traffic Management	Kai-Uwe Schrogl, ESA
14.00 – 14.45	Launch activities from celestial bodies	Eloi Petros, ArianeGroup
14.45 – 15.15	Break	
15.15 – 16.00	COPUOS and the Long-term Sustainability of Outer Space Activities	Niklas Hedman, UNOOSA
16.00 – 16.45	UN-SPIDER	Niklas Hedman, UNOOSA
16.45 – 17.15	Project Presentation + Group announcement	Cehineze Bouafia, ECSL

Friday 6 September: Space and Earth Environment		
Location: Università degli studi di Messina - Dipartimento di Scienze Veterinarie – Aula Magna		
Address: Polo Universitario dell'Annunziata - 98168 Messina ME, Italy		
09:00 – 10.00	Remote sensing principles in Outer Space	Alexander Soucek, ESA
10:00 – 10.45	Legal regimes of Earth Observation data: policy and law	Lesley Jane Smith, Leuphana University
10.45 – 11.00	Break	
11.00 – 12.00	Environmental Law and Outer Space	Alexander Soucek, ESA
12.00 – 13.00	Disaster management and international space law	Diego Zannoni
13.00 – 14.00	Lunch	
14.00 – 15.00	Space Safety: Protection from hazard originating in Space	Iliaria Zilioli, ESA
15.00 – >	Project work	

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Saturday 7 September

Group Activity: Excursion to Vulcano (optional)

Sunday 8 September

Free time and Project Work

Monday 9 September: Private issues in space

Location: Università degli studi di Messina - Dipartimento di Scienze Veterinarie – Aula Magna

Address: Polo Universitario dell'Annunziata - 98168 Messina ME, Italy

TIME	SEMINAR	SPEAKER
09.00 – 09.45	National Laws in Private Space Activities	Jenni Tapio, MEAE of Finland
09.45 – 10.30	Contracts law in space	Cécile Gaubert, Cécile Gaubert Law Firm
10.30 – 11.00	Break	
11:00 – 11.45	Insurance practices in space	Cécile Gaubert, Cécile Gaubert Law Firm
11.45 – 12.30	Innovation and space	Jenni Tapio, MEAE of Finland
12.30 – 13.30	The Italian Space Agency and its Activities	Gabriella Arrigo, ASI
13.30 – >	Project Work	

Tuesday 10 September: Digital Day

Location: Università degli studi di Messina - Dipartimento di Scienze Veterinarie – Aula Magna

Address: Polo Universitario dell'Annunziata - 98168 Messina ME, Italy

TIME	SEMINAR	SPEAKER
09.15 – 10.00	Space and media law	Philippe Achilleas, Paris-Sud
10.00 – 11.00	ITU and Regulation of Radio Spectrum and Satellite Orbits	Véronique Glaude, ITU
11.00 – 11.30	Break	
11.30 – 12.15	Market Regulation of SATCOM	Philippe Achilleas, Paris-Sud
12.15 – 12.30	Information	
12.30 - >	Project Work	

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Wednesday 11 September: Monitoring Volcano Activities using Space Technology Location: Istituto Nazionale Geofisica e Vulcanologia (INGV) Address: Piazza Roma, 2, 95125 Catania		
TIME	SEMINAR	SPEAKER
07:00 – 9:00	Departure to Mount Etna	
09.00 – 14.00	Visit of ETNA Technical Lecture on scientific instruments used by INGV (2800 meters high)	
14.00 - 15.00	Bus to INGV	
15.00 - 15.45	Remote sensing for geophysical investigations	Barbara Orecchio, University of Messina
15.45 - 16.30	How the diversity of satellite remote sensing data over volcanoes improves lava flow hazard monitoring	Gaetana Ganci, INGV
16:30 – 17.15	Monitoring and forecasting volcanic ash dispersal and fallout at Mount Etna	Simona Scollo, INGV
17:15 - >	Bus to Messina	

Thursday 12 September: Location: Università degli studi di Messina - Dipartimento di Scienze Veterinarie – Aula Magna Address: Polo Universitario dell'Annunziata - 98168 Messina ME, Italy		
09.00 – 10.00	Selection of ECSL Student Representative and Course Feedback	Chehineze Bouafia, ECSL
10.00 – 10.45	Legal Framework for European Space Programs	Marco Ferrazzani, ESA
10.45 – 11.00	Break	
11.00 – 12:00	Revision Session – “Opportunity to Ask Questions Relating to the Project”	Philippe Achilleas, Paris Sud Marco Ferrazzani, ESA
12.00 – 12.15	Announcement of ECSL Student Representative + Information	Chehineze Bouafia, ECSL
12.15 - >	Project Work	

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Friday 13 September: Final Presentations Location: University of Messina and Department of Political Sciences Address: Piazza XX Settembre, 4 - 98122 Messina		
TIME	SEMINAR	
09.30 – 14.30	Group Pitches	Jury: Salvatore Cuzzocrea, University of Messina Lina Panella, University of Messina Phillippe Achilleas, Paris-Sud University
14.30 – 16.45	Break	
16.45 – 17.00	Bus to the Messina Department of Political Sciences	
17.00 – 17.30	Group Picture + Project Group Pictures	
17.30 – 18.30	Award Ceremony and Closing Remarks	Phillippe Achilleas, Paris-Sud University
18:30 – Late	Closing Garden Party Messina Department of Political Sciences Address: Piazza XX Settembre, 4 - 98122 Messina	