

LONDON INSTITUTE OF SPACE POLICY AND LAW

PRACTITIONER AND INDUSTRY SEMINAR SERIES:

RISKS ASSOCIATED WITH SPACE ACTIVITY

The risks associated with commercial space activity can differ in nature or quality from those of other large-scale business ventures. Space projects can be more susceptible to some risks and their impact on the business can differ from terrestrial equivalents. In addition, there are certain risks specific to space commerce. These result from the longer-term nature of space activities and can arise because they are conducted in outer space. For example, commercial risks associated with the choice of technology, can have a greater impact in space where it cannot be readily changed once it is launched.

The understanding and ability to quantify risk is central to any commercial space venture and its funding. To foster better understanding of these risks and to encourage appropriate policy directions, the Institute is bringing together leading specialists to present a series of seminars on space risks and their insurance. The series will cover commercial risk, including evaluation of market demand, technology choice, competition and timing, financial risk, including equity and debt mix, currency choice and pricing, policy risk of change in government focus and emphasis, regulatory risk including ITU procedures, terms and duration of frequency assignments, and ownership transfer limitations, Physical and security risk, covered in this first seminar, and insurance, including domestic implementation of international state liability, and coverage of other risks.

These Seminars aim to inform and engage those involved in space activities, policy-makers and lawyers who advise them, as well as students and scholars in the field.

For more information about the seminars, including fees, please see our website, or contact Events@Space-Institute.org.

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UNIVERSITY OF LONDON



SEMINAR SERIES: RISKS ASSOCIATED WITH SPACE ACTIVITY

SEMINAR I: 8 JUNE 2009

PHYSICAL AND SECURITY RISK

- 9.00 – 9.05 Welcome
- Seminar Chairman: ***Professor Sir Martin Sweeting***, Surrey Satellite Technology, Surrey University
- 9.05 – 9.15 Introduction
- Description of the Series, outline of risks ranging from commercial to regulatory and physical risk
- Sa'id Mosteshar***, Director of ISPL
- 9.15 – 10.00 Debris, Orbital path, Iridium 33 and Cosmos 2251
- Claudio Portelli***, Agenzia Spaziale Italiana, Italian Space Agency (ASI), Representative on space debris in the “Inter-Agency space Debris Coordination Committee”
- 10.00 – 10.15 An introduction to the legal aspects and current guidance and Codes of Conduct
- ISPL Faculty***
- 10.15 – 10.45 Collision prediction, Practical implementation of mitigation measures, End of life measures
- Professor Richard Crowther***, Head, Space Engineering Division, Science and Technology Facilities Council, Rutherford Appleton Laboratory
- 10.45 – 11.00 Break
- 11.00 – 12.00 Situational Awareness Issues
- Kevin Madders***, Managing Partner of Systemics Network International, visiting Professor for Information and Communication Technology Law at King’s College London, ISPL Faculty
- 12.00 – 12.15 Discussion, delegate contributions and concluding remarks
- Professor Sir Martin Sweeting***

SEMINAR SERIES: RISKS ASSOCIATED WITH SPACE ACTIVITY

SEMINAR II: 4 SEPTEMBER 2009

RISK AND INSURANCE

9.00 – 9.05 Welcome

Seminar Chairman: **Nicholas Hughes**, Partner, Barlow Lyde & Gilbert

9.05 – 9.15 Introduction

Description of the Series, Summary of Seminar II on Insurance, outline of remaining topics and schedule

Sa'id Mosteshar, Director of ISPL

9.15 – 10.00 Nature of Liability 1

State International Liability – National activity, Place of damage, Victim of damage, Strict and fault liability

ISPL Faculty

10.00 – 10.45 Nature of Liability 2

Liability of operators – Damage to co-participants, Mutual waivers, Third party damage, Claim against operator cf claim against State, Comparative National Legislation

ISPL Faculty

10.45 – 11.00 Break

11.00 – 12.00 Insurable Risks

Launch, Life, Third party, State indemnity, Debris

Nature and Scope of Cover

Direct and consequential damage, Duty to mitigate

Neil F Stevens, General Counsel, Space, Atrium Space Insurance Consortium, ISPL Faculty

12.00 – 12.15 Discussion, delegate contributions and concluding remarks

Nicholas Hughes

SEMINAR SERIES: RISKS ASSOCIATED WITH SPACE ACTIVITY

SEMINAR III: 2 NOVEMBER 2009

COMMERCIAL AND FINANCIAL RISK

- 9.00 – 9.05 Welcome
- Seminar Chairman: **Marcus Bicknell**, Formerly Commercial Director of Société Européenne des Satellites, Member of the Board of SES
- 9.05 – 9.15 Introduction
Description of the Series, Summary of Seminar III on Commercial and Financial Risks, outline of remaining topics and schedule
- Sa'id Mosteshar**, Director of ISPL
- 9.15 – 10.00 Commercial Risk Factors
Evaluation of market demand, Competition and timing
- Pacôme Revillon**, CEO and Managing Director, Euroconsult
- 10.00 – 10.45 Technology Risk
- Technology choice and impact of market changes
- Philippe Francken**, Vice President, Risk Management, SES Engineering
- 10.45 – 11.00 Break
- 11.00 – 11.45 Financial Risk
- Financing Options, PPP Activities and Risk Allocation
- Andrew Ivison**, Partner, CMS Cameron McKenna
- 11.45 – 12.00 Discussion, delegate contributions and concluding remarks
- Marcus Bicknell**

SEMINAR SERIES: RISKS ASSOCIATED WITH SPACE ACTIVITY

SEMINAR IV – I: 5 FEBRUARY 2010

POLICY AND REGULATORY RISK: COMMUNICATION SECTOR

9.00 – 9.05 Welcome

Sa'id Mosteshar, Director of ISPL

Summary of Seminar IV on Policy and Regulatory Risk Considerations for Satellite Communications

Chairman of Seminar: *Jeremy Rose*
Senior Consultant, Comsys

Policy Factors, Regulatory Risk, Spectrum Procedures and Risk
Risk as an Element in Political Priorities, Commercial Pressures, National,
Regional and International Regulations

9.05 – 9.50 Risk Containment through International and European Spectrum Policy,
Risk Considerations in European Regulatory Objectives, Role of Risk in
Evaluation of Satellite Spectrum Pricing, Impact of Commercial Pressures
on Satellite Spectrum Management, CEPT

Ann Vandembroucke, Head Regulatory and Policy Issues, Inmarsat, ISPL
Faculty

9.50 – 10.35 Risk Factor in International Telecommunication Union Procedures, Paper
Satellites

Anthony Baker, Head of Spectrum Team, SES

10.35 – 10.50 Break

10.50 – 11.35 Risks Associated with European Regulatory Procedures

Kumar Singarajah, Director, Government Affairs, Avanti

11.35 – 12.20 Regulatory Risks in within UK Legal and Policy Framework Governing
Satellite and Space Activities and as Reflected in UK Space IGT
Regulatory Study

ISPL Faculty

12.20 – 12.45 Discussion, delegate contributions and concluding remarks

Jeremy Rose

SEMINAR SERIES: RISKS ASSOCIATED WITH SPACE ACTIVITY

SEMINAR IV-II: 27 OCTOBER 2011

POLICY AND REGULATORY RISKS

9.00 – 9.05 Welcome

Seminar Chairman, **Professor Richard Crowther**, STFC, UK Space Agency, ISPL Advisory Board

9.05 – 9.10 Introduction

Description of the Series, Summary of Seminar IV-II on Policy and Regulatory Risks, outline of future publication

Professor Sa'id Mosteshar, Director of ISPL

9.10 – 9.50 Risk and Policy in Cooperative Programmes at European and International Level

Professor David Southwood, Imperial College, Member, UK Space Agency Steering Board, ISPL Advisory Board

9.50 – 10.30 Critical Policies and Regulatory Provisions affecting space projects

Professor Kai-Uwe Schrogl, Head of Policies, ESA

10.30 – 10.50 Coffee

10.50 – 11.25 Approach to Policy and Regulation in the Isle of Man

Dr Don Jayasuriya, Director, ManSat

11.25 – 12.10 Managing Policy and Regulatory Risks
Change of government focus and emphasis and political priorities

Stephen Gibson, Commercial Director, Surrey Satellite Technology Limited

12.10 – 12.30 Discussion, delegate contributions and concluding remarks

Professor Richard Crowther