



**WORKSHOP  
EVIDENCE FROM SPACE**

ISPL ESA STUDY  
THE USE OF SATELLITE-DERIVED INFORMATION AS EVIDENCE

UCL ESRC PROJECT  
ON THE USE OF SATELLITE INFORMATION IN AUSTRALIA



**WILKINS OLD REFECTORY, UCL, GOWER STREET, LONDON WC1E 6BT  
TUESDAY 5 OCTOBER 2010**

**PROGRAMME**

- 8.15**    *Sign in – Coffee and tea will be provided*
- 8.45**    *Welcome and Introduction – Overview of Project*
- Workshop Chairman: Mark Doherty*  
*ISPL Director: Sa'id Mosteshar*
- Key issues in use of satellite-derived information.  
Evaluation of previous research. New research under the Study.
- 8.55**    *Methodology – Rules of Evidence*
- Moderator: Luc Govaert*  
*Presenter: Kevin Madders*
- Relevant principles of evidence, practical issues including authentication, audit trail, processing reliability and security
- 9.25**    *Systems Capabilities – Satellite and Data Processing Features*
- Moderator: Gordon Campbell*  
*Presenters: David Morten*  
*Robert Gurney*  
*Marc Journal*
- Satellite capabilities for land motion measurement  
Calibration and system reliability  
Satellite capabilities for oil spill detection and polluter identification
- 10.15**    **Coffee**
- 10.30**    *Cases using EO Information - Space and Aerial Information*
- Moderator: Tanja Masson-Zwaan*  
*Presenter: Alessandro Ferretti*  
*Simon Kay*  
*Egbert Jongasma*
- Cases, including Rovigo  
Agricultural Subsidy Claims, Verification, Fraud and Expert Evidence  
Cases prosecuted
- 11.15**    *Jurisdictional Treatment – Case Reports and Regulatory Experience - Comparative Perspectives*
- Moderator: Kai-Uwe Schrogl*  
*Presenter: Sa'id Mosteshar*  
*Kevin Madders*  
*Lucien Rapp*  
*Johanna Symmons*  
*Maureen Williams*
- UK and US  
Belgium, The Netherlands  
France  
Germany  
International law
- 12.30**    **Buffet Lunch**

### 13.30 *UCL ESRC Project - Use of satellite Information in Australia and Lessons Learned*

*Moderator:* Richard Macrory

*Presenter:* Ray Purdy Use of satellite derived information, perception and impact

### 14.30 *Case Study I - Land subsidence*

*Moderator:* Luc Govaert

*Presenters:* Sa'id Mosteshar and Alessandro Ferretti

### 15.30 **Tea**

### 15.45 *Case Study II – Oil Spill*

*Moderator:* Gordon Campbell

*Presenter:* Kevin Madders and Marc Journal

### 16.45 *Questions Raised – Issues Identified, Areas for Further Study, Actions and Conclusions*

*Moderator:* Sa'id Mosteshar

*Panelists:* Gordon Campbell, Luc Govaert, Robert Gurney, Tanja Masson-Zwaan, Ray Purdy, Kai-Uwe Schrogl, Maureen Williams

### 17.15 *Closing report and concluding remarks by the ESA Project Managers and Institute Director*

#### **Moderators and Presenters:**

<i>Gordon Campbell</i>	Directorate of EO Programmes, Project Manager, ESA ESRIN
<i>Mark Doherty</i>	Head of Exploitation Division, ESA ESRIN
<i>Alessandro Ferretti</i>	Chief Executive Officer, TRE
<i>Luc Govaert</i>	Project Manager, ESA ESRIN
<i>Professor Robert Gurney</i>	Director, Environmental Systems Science Centre, Reading University
<i>Egbert Jongma</i>	Audit Manager, Netherlands Court of Audit
<i>Marc Journal</i>	Satellite Based Monitoring Services, EMSA
<i>Dr Simon Kay</i>	Head of Unit, Joint Research Centre, Monitoring Agricultural Resources, MARS
<i>Professor Richard Macrory</i>	Director, Centre for Law and the Environment, UCL
<i>Professor Kevin Madders</i>	Systemics Network International; KCL; ISPL Faculty
<i>Tanja Masson-Zwaan</i>	President IISL; Deputy Director, IIASL Leiden; ISPL Faculty
<i>David Morten</i>	Managing Director, Fugro NPA
<i>Professor Sa'id Mosteshar</i>	Director, ISPL
<i>Ray Purdy</i>	Deputy Director, Centre for Law and the Environment, UCL; ISPL Faculty
<i>Professor Lucien Rapp</i>	Toulouse University; ISPL Faculty
<i>Professor Kai-Uwe Schrogl</i>	Director ESPI; ISPL Faculty
<i>Johanna Symmons</i>	ISPL Researcher
<i>Professor Maureen Williams</i>	University of Buenos Aires/Conicet; Chair, Space Law Committee, ILA

#### **Rapporteurs**

<i>Susan Barham</i>	Partner, Barlow Lyde & Gilbert
<i>Klaus Becher</i>	Space Policy Consultant, ISPL Faculty
<i>Dr Hervé Borrión</i>	Science Manager, Jill Dando Institute of Crime Science, UCL
<i>Dr Andrew Brearley</i>	Debris Policy Specialist
<i>Richard Graham</i>	Senior Associate, Bird & Bird; ISPL Faculty
<i>David Halbert</i>	Technical Project Manager, Infoterra
<i>Dr Stephen Hobbs</i>	Director, Cranfield Space Research Centre, Cranfield University
<i>Yeliz Korkmaz</i>	Researcher, Leiden University
<i>Professor Jan-Peter Muller</i>	Image Understanding & Remote Sensing, Space & Climate Physics, UCL
<i>Matxalen Sánchez Aranzamendi</i>	Resident Fellow, ESPI
<i>Neil F Stevens</i>	General Counsel, Atrium; ISPL Faculty
<i>Johanna Symmons</i>	International Lawyer; ISPL Researcher
<i>Professor Geoffrey Wadge</i>	Chairman, Monserrat Science Committee, NERC-ESSC
<i>Ilaria Zilioli</i>	Contracts Officer, ESA; ISPL Faculty