



## **Programme of the Workshop on Innovative System Concepts**

Location: ESTEC, Noordwijk, 21st of February 2006. (Room: Newton 1)

9:00 **Workshop welcome by the organizing committee**

9:15 **Dave Fearn** *Interstellar Precursor Missions using Advanced Dual-stage Ion Propulsion Systems*  
Retired-head of QinetiQ EP group

9:45 **Ralph McNutt** *Innovative Interstellar Explorer*  
Principal Professional Staff, John Hopkins University

10:15 **Roger Walker** *Advanced Solar and Nuclear Electric Propulsion Systems for Asteroid Impact Hazard Mitigation*  
Research Fellow, ESA - ACT

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**Coffee break 10:45 – 11:15**  
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11:15 **Ivan Bekey** *Formation Flying pico/nanosat swarms for very large aperture synthesis*  
President, Bekey Designs Inc.

11:45 **Paolo D'Arrigo** *APIES: exploring the asteroid belt with satellite swarms*  
Head of Space Science Group  
Future Missions & Proposals  
EADS Astrium Ltd.

12:15 **Lorenzo Pettazzi** *Navigating swarm using behavioural approaches*  
Ph.D. Candidate, ZARM - University of Bremen

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**Lunch break 12:45 – 14:00**  
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14:00 **Gordon Parker** *Coulomb Formation Flying*  
Assistant Professor  
Virginia Polytechnic Institute

14:30 **Daniele Mortari** *Flower Constellations as Rigid Objects in Space*  
Associate Professor Department of Aerospace Engineering Texas A&M University

15:00 **Shinichi Nakasuka** *Panel Extension Satellite (PETSAT) - A Novel Satellite Concept Consisting of Modular, Functional and Plug-in Panels*  
Professor of the Department of Aeronautics and Astronautics, University of Tokyo

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**Coffee break 15:30 – 16:00**  
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16:00 **Juan Sanmartin** *Electrodynamic tethers for Exploration of Jupiter & its Icy Moons*  
Professor, Physics Department, Universidad Politecnica de Madrid

16:30 **Vaios Lappas** *Attitude Control of Agile Spacecraft*  
Academic Staff at Surrey University

17:00 Workshop wrap-up and conclusions

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**Visit to ESTEC test facilities 17:30 - 18:15**  
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