

VII International Scientific Conference
„**Development Trends in Space Technologies**”

October 21.2011

Warsaw, Poland

General Information

The conference will be held in the premises of the Committee on Space Research,
Polish Academy of Sciences, 18a Bartycka street, Warsaw

Technical Program

21.10.2011r.

09:00 – 10:00 Registration

10:00 Opening Ceremony

10:10 – 11:00 Plenary Lecture

Session Chair: Prof. P. Wolański

Dr. M. Mroczkowski: *The Mission and the Concept of a Miniature
Autonomous Space Shuttle Robot – Space
Technology for Collecting and Removing Space Debris*

Session: Rockets and Space Propulsion

Session Chair: Prof. Rudolf Klemens

11:00 – 11:30 *Aeroplane Coupled System to Space Tourism*
M. Figat, C. Galiński, A. Kwiek

11:30 – 12:00 *Drag Coefficient of Rocket Cone – Characteristics and
Comparison*
Ł. Boruc, P. Oleszczak

12:00 – 13:00 Lunch

Session Chair: Dr. M. Mroczkowski

13:00 – 13:30 *High Power Rocketry as a Tool for Scientific Research*
A. Kotarski

13:30 – 14:00 *Solid Rocket Propellants Test Facility*
Ł. Boruc, J. Kindracki, P. Oleszczak

14:00 – 14:30 *Engine Test Bench of Rocket Section of Students’
Space Association*
B. Bartkowiak, J. Matyszewski, P. Oleszczak

14:30 – 15:00 Coffee Break

Session Chair: Dr. A. Kobiera

- 15:30 – 16:00 *Rocket Engines and Fuels Utilized by Rocket Section of Students' Space Association*
A. Okniński, B. Marciniak, B. Bartkowiak, P. Oleszczak
- 16:00 – 16:30 *Project of Rocket "Amelia" and Development Plans of Rocket Section of Students' Space Association*
B. Marciniak, B. Żyliński, P. Oleszczak
- 16:30 - 17:00 *Thermal Insulations of Solid Propellants Rocket Engines*
A.Okniński, P.Oleszczak

Session: Satellites

Session Chair: M. Sc. A. Kotarski

- 17:00 – 17:30 *Mathematical Model of Electrothermal Satellite Thruster*
A. Kobiera, J. Kindracki, Ł. Meżyk
- 17:30 – 18:00 *Numerical Simulations of Collisions Between Satellites and Space Debris*
P. Dybcio, W. Barnat, A. Kobiera
- 18:00 – 18:30 Final Discussion and Closing Ceremony