

Fifth Ukrainian Conference in Space Research

On September 4–11, 2005, by decision of National Space Agency of Ukraine (NSAU), and Council in Space Research of National Academy of Sciences of Ukraine (NASU), on the territory of the National Center of Control and Tests of Space Means (Evpatoria, Crimea), the Fifth Ukrainian Conference in Space Research was held. The conference was organized by Institute of Space Research of NASU and NSAU (ISR of NASU and NSAU) under support of NSAU, Council in Space Research of NASU, National Center of Control and Tests of Space Means of NSAU (NCCTSM NASU). Immediate organizers of the Conference were ISR of NASU and NASU and NCCTSM NASU.

The conference included five sections: "Extra-atmospheric astronomy and astrophysics", "Magnetosphere and ionospheric studies", "Space technologies, material science and instrument-making for research", "Observations of the Earth from space" and "Information technologies in space research". Some 27 communications were submitted to the first section, 49 to the second section, 32 to the third section, 49 to the fourth section and 28 to the fifth section. By decision of Program Committee of the Conference, section "Space biology and medicine" this year was presented by plenary lectures only.

Within the framework of "Round Table" there were discussions in topics "Concept of space activity of Ukraine: main priorities and milestones of the new space program"; "Promising space research"; "Earth observation from space: creation of GMES system of Ukraine".

Some 117 participants took part in the Conference who delivered 148 lectures. Participants of the Conference were representing leading research centers of Ukraine in space research: GKB "Yuzhnoe", Institute of Space Research of NASU and NASU, E.O.Paton Electric Welding Institute of NASU, Main Astronomic Observatory of NASU, Radio Astronomic Institute of NASU, Institute of Ionosphere of NASU and Ministry of Education and Science of Ukraine (MESU), Research and Industrial Union "Kurs", Crimea Astrophysical Observatory of NASU and MESU, Institute of Technical Mechanics of NASU and NSAU, Taras Shevchenko Kiev National University, National Center of Control and Tests of Space Means of NSAU, G.V.Kurdyumov Institute of Metallophysics NASU, Center of Aerospace Research of Earth, Institute of Geological Sciences of NASU, Central Design Bureau "Arsenal", Center of Radiophysic Probing of Earth of NASU and NSAU and other (51 organizations in total).

Actively participated in the Conference also representatives of leading organizations from Russia working in the fields of space research: TsNIIMASh, RKK "Energiya", Institute of Space Research of RAS and also representatives of institutes of AS of Byelorussia and AS of Georgia.

We should mention continuation of active participation in the Conference of leading research institutes and research and industry organizations of Ukraine and Russian Federation, and also extending geography of Conference participants and joining to its work of colleagues from Byelorussia and Georgia.

After the end of the Conference, the participants approved the following decision:

1. Conference participants approve the main approaches to forming concept of the new Space Program of Ukraine and recommend NSAU to take into account recommendations made during discussions and in experts' questionnaires. It is recommended to continue discussion of space policy of Ukraine and to publish suggestions of conference participants on the Web site of NSAU.

2. It is necessary to note activity of NSAU and NASU in complex developing, equipping and applying means of NCCTSM (RT-70, P400) in one of topical directions of land-space radio astronomy, first of all, radar interferometry, and also in preparation to mission "Radioastron" within the framework of broad international cooperation.

3. Conference participants approve positive experience of interaction of NSAU, NASU and MESU in preparation and implementation of research in the field of Sun-Earth links and "space weather" on the basis of the available in Ukraine potential. It is recommended strengthening supporting work in this promising direction and taking particular measures in development of international cooperation.

4. Participants supported the chosen by NASU trend in development of information system for ensuring data and services of remote probing of the Earth of geoinformation systems of users; its integration into international program GMES is expedient and prestigious for Ukraine.

5. For enhancing efficiency of work of the Conference and strengthening its influence on organization of space research in Ukraine, it is admitted expedient:

— to extend the list of sections and to attract to participation in the Conference of designers of rocket and space means. For that it is necessary to foresee parallel sessions of different sections;

— to continue practice of discussing key problems of space activity at "round tables"; the Organization Committee should beforehand prepare suggestions of subjects of discussions and also to extend time span for such sittings;

— to implement into the practice of Conference delivering plenary lectures by invited speakers in "break-through" directions of space activity in Ukraine;

— to organize at the Conference competitions for the best oral and poster presentations and also for the best youth presentation;

— to extend practice of inviting to the Conference of leading researchers from foreign countries.

Participants of the Conference emphasized a high level of preparation and carrying on the conference and expressed their thanks to the Organizing Committee, to staff of ISR of NASU and NSAU and to NCCTSM of NASU for their efforts.

Scientific Secretary of Conference N.N. Salnykov