



**REPORT ON THE
XXVIth General Assembly of the IAU
by Chair Persons of the NOC and LOC**

International
Astronomical Union

**IAU XXVIth
General
Assembly**

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Final Report

REPORT ON THE XXVIth GENERAL ASSEMBLY of the International Astronomical Union

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Prague, Czech Republic

by Chair Persons of the National and Local Organizing Committees

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1 Summary

The 26th General Assembly of the International Astronomical Union (IAU) took place in the Congress Center Prague, from 14th to 25th August 2006. The capital of the Czech Republic welcomed the astronomers from all over the world again after 39 years, since the 13th IAU General Assembly was held also in Prague in 1967.

The Prague General Assembly was held under the auspices of the President of the Czech Republic Václav Klaus, former President of the Czech Republic Václav Havel, President of the Academy of Sciences of the Czech Republic Václav Pačes, Lord Mayor of the Capital of Prague Pavel Bém and the Rectors of the Charles University in Prague, Czech Technical University in Prague and Masaryk University in Brno.

The last IAU General Assembly took place in Sydney, the next ones are being prepared for 2009 in Rio de Janeiro and 2012 in Beijing.

Prague welcomed the astronomers from 73 countries who came to discuss and evaluate the most recent discoveries and observations, to go through fundamental scientific, technical and administrative problems and to agree on future international cooperation. The topics covered all astronomical disciplines, ranging from our closest neighborhood to the farthest objects of the universe.

In total, 2412 astronomers participated at the General Assembly, out of which there were 540 students and 115 seniors (the latter two categories paying substantially lower registration fee). Early registration fee, lowered by about 25 per cent, was used by about 85 per cent of participants, 87 persons registered on site. There were 208 registered guests, including 38 children younger than 11 years.

The program of the General Assembly consisted of 6 symposia (3.5-day long), 17 Joint Discussions (1-2 day long), 7 Special Sessions (1-2 day long), the debates of Young Astronomers and Women in Astronomy, and about 110 business meetings of Divisions, Commissions and Working Groups of the IAU. During the scientific program almost 650 oral papers were presented and more than 1550 posters displayed. There were also four Invited Discourses of the leading world astronomers: Jill Tarter (The evolution of life in the Universe), Alan Title (The magnetic field and its effects on the solar atmosphere as observed at high resolution), Shuang Nan Zhang (Similar phenomena at different scales: Black holes, Sun, supernovae, galaxies and galactic clusters) and Reinhard Genzel (The power of new experimental techniques in astronomy: Zooming in on the black hole in the center of the Milky Way). Three presentations of leading astronomers were also made for the Czech public at the building of the Academy of Sciences that were interpreted into Czech (Jill Tarter, Françoise Combes and Reinhard Genzel).

The IAU General Assembly touched a major part of actual questions of astronomy, astrophysics and related disciplines. Among others, small bodies of the Solar System that could closely approach the Earth, double stars and their role in determining the distances in the Universe, star formation, evolution of galaxies, black holes, and new definition of a planet in the Solar System were discussed.

The participants could use the Internet connection in Internet Room in which both desktop computers and tens of free connections for laptop computers were installed. About 1 TB of data was transmitted via this fixed network. Thanks to a sponsorship of the T-Mobile CZ company almost unlimited wireless connection was made possible for those who brought their laptops equipped with WiFi cards. In total, 18370 of wireless connections to Internet were used that lasted 15500 hours; about 250 GB of data were transmitted during the whole General Assembly. This corresponds to approximately 1800 fifty-minute connections each day.

A rich accompanying program was prepared for the participants that more than 2200 persons utilized. Except for tours to the most interesting parts of our country they could take part in the excursion to the Ondřejov Observatory and in a historical colloquium "Astronomy in Prague in the Mirror of Centuries".

An exhibition was set up in the Congress Center Prague in which 34 companies and institutions from the whole world participated. From the Czech Republic these were: Astronomical Institute of the Academy of Sciences, Klet' Observatory, Czech Space Office, Czech Astronomical Society, T-Mobile CZ company and Academia publishing house. Among exhibitors, there was also the International Virtual Observatory Alliance.

Every workday a newspaper "Dissertatio cum Nuncio Sidereo III" was issued that provided a symbolic link to the astronomical past of the Czech Lands when Johannes Kepler published in Prague his work *Dissertatio cum Nuncio Sidereo* in 1610, and when the newspaper "Dissertatio cum Nuncio Sidereo II" was issued during the Prague IAU General Assembly in 1967.

The IAU General Assembly was not open for public. However, some parts were transmitted live to the interned by web-streaming, thanks to a sponsorship provided by MediaStream company. All sessions that took place in the Congress Hall were transmitted: Opening and Closing Ceremonies, all four Invited Discourses, discussions and voting on the new definition of a planet and the talk by the laureate of Gruber Foundation Prize, John Mather¹. More than 8 thousand spectators followed these transmissions during the General Assembly. The most popular was the voting on planet definition during the second plenary session which about 5 thousand spectators witnessed in real time. All these transmissions are recorded and are accessible through the Internet, by January 2007 more than 37 thousand accesses were recorded.

The introductory Press Conference for Czech journalists took place in the building of the Academy of Sciences in Prague, before the opening of the General Assembly, on August 10. Daily press conferences took place during the meetings, directly in the Congress Center, in which both officers of the IAU and important world astronomers participated. The General Assembly was mostly covered by the stations of the Czech Radio (Radiožurnál, Praha, Vltava, Leonardo, ČR 6), but also by the Czech press and Czech TV which provided service to many TV companies in abroad. There were 125 domestic and 70 international journalists and press agencies accredited. The eye-witnesses of IAU General Assemblies agreed that this Prague General Assembly had the highest publicity in the history.

Several Czech astronomers were honored during the assembly. Kamil Hornoch obtained a prize of the Pacific Astronomical Society for 2006 for astronomers - amateurs, Zdeněk Sekanina got the Nušl prize of the Czech Astronomical Society for his whole-life scientific work, the IAU Symposium 240 (Double stars) was dedicated to Miroslav Plavec and the editor of the international scientific journal Solar Physics organized a festive lunch as a tribute to Zdeněk Švestka. The congress newspaper remembered in a long article the outstanding Czech astrophysicist František Link whose 100th birthday fell on the second congress day.

¹In October 2006 John Mather was awarded Nobel Prize in Physics.

2 The Early Years

2.1 History of Winning the Bid

The first consideration of Czech astronomers making a bid for obtaining a second IAU General Assembly (GA) in Prague was in the late 1990s. In 1999 the National Committee for Astronomy (NKA) decided to issue an invitation, which was sent to the General Secretary (GS) of the IAU in December 1999. Thus, the preparation time for such a major congress was about 7 years.

A more specific consideration including the venue and preliminary budget was prepared in cooperation with the professional congress agency ICARIS. This proposal, which was supported by the president of the Czech Republic Václav Havel, was sent to the IAU in June 2000. The decision to hold the 2006 IAU General Assembly (GA26) in Prague was announced after the EC meeting at the IAU General Assembly in Manchester in August 2000.

The GS and other members of the Executive Committee (EC) of the IAU visited Prague in May 2001 and inspected the Prague Congress Center (KCP), which was proposed as the GA venue. The second EC visit happened in 2004. Beside the visit in KCP two possible venues for farewell reception were shown: the Jesuit college Clementinum and Industrial Palace. After a recommendation of the EC and discussions by NOC the Industrial Palace was selected. The EC meeting held in Rome June, 2005 decided on the scientific proposals for the program of the Symposia, Joint Discussions and Special Sessions that would be on agenda of GA26.

2.2 Establishment of the National Organizing Committee - NOC

2.2.1 The Chairpersons of the NOC

In January 2001 the NKA elected Jan Palouš as the chairperson and Jan Vondrák as the vice-chairperson of the National Organizing Committee (NOC) of the 26th GA IAU. Their first task was to propose before the end of February 2001 other members of the NOC. This proposal was subject to an approval by the NKA.

2.2.2 NOC members

Following the joint proposal of NOC chair and vice-chair persons the NKA approved in March 2001 the following members of the NOC representing the major astronomy Institutions in the Czech Republic:

Jiří Bičák - Institute of Theoretical Physics, Charles University, Prague;
Jiří Borovička - Astronomical Institute, Academy of Sciences of the Czech Republic, Ondřejov;
Soňa Ehlerová - Astronomical Institute, Academy of Sciences of the Czech Republic, Prague;
František Fárník - Astronomical Institute, Academy of Sciences of the Czech Republic, Ondřejov;
Jiří Grygar - Institute of Physics, Academy of Sciences of the Czech Republic, Prague;
Petr Hadrava - Astronomical Institute, Academy of Sciences of the Czech Republic, Ondřejov;
Petr Harmanec - Astronomical Institute, Charles University, Prague;
Petr Heinzel - Astronomical Institute, Academy of Sciences of the Czech Republic, Ondřejov;
Vladimír Karas - Astronomical Institute, Charles University, Prague;
Marian Karlický - Astronomical Institute, Academy of Sciences of the Czech Republic, Ondřejov;
Zdeněk Mikulášek - Institute of Theoretical Physics and Astrophysics, Masaryk University, Brno;
Jan Palouš - Chair - Astronomical Institute, Academy of Sciences of the Czech Republic, Prague;
Miloš Šídlichovský - Astronomical Institute, Academy of Sciences of the Czech Republic, Prague;
Martin Šolc - Astronomical Institute, Charles University, Prague;
Jan Tichá - Klet' Observatory;
Jan Vondrák - Vice-chair - Astronomical Institute, Academy of Sciences of the Czech Republic, Prague;
Marek Wolf - Astronomical Institute, Charles University, Prague.

2.3 Formal Hosts

The formal hosts issuing the invitation was NKA of the Czech Republic. However, neither this body nor NOC has the legal subjectivity in the Czech Republic enabling to sign contracts with providers. In the case of GA26, it was the Astronomical Institute of the Academy of Sciences of the Czech Republic (AI ASCR) who overtook the legal responsibility including all the financial risks.

2.4 Financial background

The initial seed funding for printing of the leaflets with the first announcement, first poster and other materials (see below) was provided by the AI ASCR. There was an application for the GA26 support pending at the Ministry of Education, Youth and Sports issued in 2005 for 10 MCZK, however, this application failed, which was announced early in 2006. Consequently, it was not possible to decrease the registration fee to the level below 500 EUR, as it was intended in the case of success of the above application. The only additional funding was allocated by the same Ministry after the conference in October 2006, but on a much smaller level, 0.75 MCZK. The main conference incomes were registration fees, a much smaller part was provided by the exhibition, sponsors and the Ministry of Education, Youth and Sports. Academy of Sciences of the Czech Republic contributed with special travel grants added to the individual grants allocated by the IAU.

2.5 The Professional Conference Organizer - PCO

2.5.1 The Selection Process

One of the most important issues to be decided by the NOC was the appointment of a Professional Conference Organizer (PCO) of the GA. An open tender was announced in April 2001 with a deadline for proposals in May 2001. Some five PCOs responded to the tender request. The number was reduced to two short-list candidates, ICARIS and CBT. The selection was done in the end of May with the following result: the travel agency CBT. (Congress Business Travel) was the main partner providing all the necessary parts of the conference except the Newspaper, Program and Abstract books and distribution of the last minute changes in the program, which was attributed to the congress agency ICARIS. Originally, ICARIS should guarantee also the Internet connection at the conference venue, but this was later provided by another partner.

2.5.2 Contracts

A scheme of contracts has been developed during 2001 and 2002. The main contract was signed between AI ASCR and CBT with the statement that an eventual negative financial result will be covered from the budget of the AI ASCR. Another contract fixed ICARIS as a sub-provider of specific parts of the GA IAU. AI ASCR acts in this contract between CBT and ICARIS as receiver approving that a service was provided properly. Another contract was signed between KCP and CBT. The details of contracts were subject to continuous changes and upgrades, so that changing requirements and specific requests of the conference could be fulfilled.

2.6 Selection of the Venue

Since the very beginning it was apparent that the only place in Prague able to host the GA IAU with estimated 2500 participants is the KCP. This venue hosted recently such large events as the summit conferences of the International Monetary Fund (2001) or NATO (2002). In 2006 still no other similar place existed in Prague.

2.6.1 The Booking

NOC visited several times the KCP during 2001. In November the GS IAU Hans Rickman and AGS IAU Oddbjørn Engvold accompanied by the secretary Monique Orine visited the KCP. They were impressed with the size and scope of the facilities and the possibilities offered by the venue and the process of room reservation

and allocation of specific events started. In 2002, the contract on the room reservations and other services between KCP and CBT was signed. It specified the dates of the GA and the exclusivity, i.g. there will be no other action during our dates in the building. One of the major halls, the Forum Hall (capacity 700), was left as a reserve, and it was included to the budget only later in 2005.

2.7 Development of the Logo

In 2002, the Logo of the 26th GA IAU has been proposed in a graphical studio by Eliška Konopiská. The NOC selected from several variants and approved the final version, which was used since the December 2002 on the conference poster, the 'Expression of Interest' leaflet, and on other materials.



2.8 First Announcement

The First announcement with the information on the 26th GA IAU in Prague in the Czech Republic and on the GA venue was produced early in 2003. This leaflet announced that the website www.astronomy2006.com exists and that it would be continually updated with the information on the accommodation, scientific program, tourist program etc. The contact to the conference secretariat CBT was given, and the Expression of Interest return leaflet was included.

2.9 ...are there frogs there too?

As a part of the promotion of the future GA in Prague the poem '...are there frogs there too' by Jan Neruda was translated during first half of 2003 from Czech to English by Robert Russel and illustrated by Luděk Bárta. Jan Neruda, Czech poet, writer and journalist born in Prague, grew up in a colourful part of the old Prague called Malá Strana (Lesser Town). Neruda's poetry work *Cosmic Songs* (1878) was inspired by modern astronomy.

2.10 A movie: 'Astronomy in the Czech Republic'

As another part of the GA promotion, the 31 min. movie 'Astronomy in the Czech Republic' was produced early in 2003. The history starting from Tycho Brahe and Johannes Kepler including the time of Jesuit College Clementinum is represented there. The contemporary major astronomical places in the Czech Republic are introduced with its instruments and principal projects.

2.11 Publicity at the 25th GA in Sydney

The NOC recognized that good publicity at the 25th General Assembly in Sydney was important to whet the appetites of astronomers to come to the Czech Republic. A display about the Prague GA, which included large posters with the GA26th logo and a continuous video presentation including the movie 'Astronomy in the Czech Republic' and other movies showing the tourism potential of the country, was set up in the display stand of the next GA provided by us by Sydney GA organizers free of charge. The area was well attended, the First announcement was distributed there together with the booklet '...are there frogs there too'.

To have an idea on the framework of the GA IAU, two CBT staff members also attended the event. This experiences from Sydney meeting were extremely valuable to the NOC and CBT in framing its approach to organizing such a complex event in Prague.

Attending NOC members met with the IAU Executive Committee during a session where the Co-Chairs of the Sydney Local Organizing Committee presented their interim report. At the Closing Ceremony, Jan Palouš invited the 25th GA participants to the next GA IAU in Prague. He gave a presentation enhanced by images (including some of his own astronomical images) of Czech Republic, Prague and Czech astronomy.

3 The Later Years

3.1 Formation of the LOC

At a meeting in October 2004, the NOC appointed the LOC for the 26th GA IAU. It consisted of the following persons: L. Červinka (ICARIS), Z. Dienstbierová (AI ASCR), J. Palouš (ASCR), R. Plaček (AI ASCR), P. Suchan (AI ASCR), C. Ron - Chair-person (AI ASCR), M. Šenderová (CBT), Z. Tesařová (CBT), J. Tichá (Klet' Observatory), J. Vondrák (AI ASCR), M. Wolf (AI UK).

3.2 Meetings of NOC, LOC, CBT, Icaris and KCP

There were 22 meetings of the NOC & LOC before the beginning of GA. These meetings solved various tasks and problems of the GA. At some of the meetings also other representatives of CBT and ICARIS travel agencies were attending. Different members of SOC/LOC visited the KCP to discuss the budget, IT, networking, catering, etc.

3.3 EC meeting in April 2005 in Rome

The chair NOC was invited to a part of the EC IAU meeting in April 2005 at Monte Mario Observatory in Rome, which was the same day when the new pope was elected. There, the EC decided on the proposals of the Symposia, Joint Discussions (JD) and Special Sessions (SPS) of the 26th GA in Prague, which was announced to the chair NOC, who reported on the status of preparations, on the GA venue and on the level of the registration fee. It was made clear, that without a major sponsor, and assuming 2500 participants, the registration fee level has to be \sim 550 EUR. This level has been approved by EC IAU. Another financial difficulty was the changing exchange rate of the Czech Crown (CZK), which was steadily rising over seven years of GA preparation. Chair NOC explained that it is necessary to fix the registration fee in CZK, since the main spending are in this currency. This was also approved by the EC.

As concerns the framework of the program, several symposia, JD and other meetings attracting similar groups of specialists overlapped in time. This resulted in a dilution of the speakers and of the audience, since no one can participate two events in parallel.

3.4 Communicating with SOCs of individual events

The SOC's of the approved Symposia 235 - 240, JD 1 - 17, and SPS 1 - 7 started to prepare the detailed program of individual events. The contact between separate SOC's was established via IAU. The names and addresses of the SOC's chair-persons have been published in the IAU Bulletin. However, in our opinion, more communication and exchanges of preliminary programs, lists of key-note speakers and other information on the organization would be very welcome. It should be better organized in the case of future GA.

3.5 Room allocation

Allocation of rooms for individual events was done in cooperation between NOC/LOC - IAU secretariat in Paris - CBT. It was a subject of continuous changes and increasing requests from different IAU Divisions, IAU Commissions, and groups interested to organize a meeting in Prague. The final limit was the total capacity of the KCP, which was used to its maximum. Some days there were 18 meetings in parallel.

3.6 General Assembly Website

The GA26 website <http://www.astronomy2006.com> was originally set up by CBT via Graphic Studio VLADO in 2003, just before the 25th General Assembly in Sydney in the very simple form. Only the general information on the venue, the contact to the NOC, IAU and GA secretariat and the pre-registration form have been provided. Up to the start of the on-line registration, more than 750 participants had been pre-registered. Thus LOC was able to inform them about the start of the on-line registration.

The website has been substantially updated on November 9, 2005. The following items have been put on it: the important dates, the on-line registration form, the on-line abstract submission form, information on exhibition and sponsors, visa information and the scientific program with links to the list of registered abstracts and websites of individual scientific events. Since December 2005 the link to: the IAU grant application, the on-line form to order the proceedings for special reduced price, the on-line registration form of accommodation, and the on-line registration of the social program & tours have been added. The website has been updated continuously and all substantial changes were announced on the News page.

Since the end of April 2006, the RSS Feed has been provided on the GA26 website. The participants were then highlighted on the news and changes on the website through their RSS Feed Reader directly. The associated pages at the server astro.cas.cz were hosted and maintained either by Cyril Ron or by Michal Bursa. They contained all information provided for the SOCs: the easier access to the text of abstracts, the email addresses of the authors, etc. The email addresses of the registered participants were also available to the SOCs in the form of the secured RSS feed.

The website provided the most effective means of the NOC to distribute information to potential GA participants. The NOC have got ready access to the email list of IAU members as a feed-back of the last GA in Sydney Report. It is recommended that in the organization of future GAs, the NOC should be given an up-to-date copy of the IAU email address list.

The statistics of the accesses to the GA26 website in 2006 is shown in the following table:
(see <http://www.astronomy2006.com/stat> for more information)

Month	Unique visitors	Number of visits	Pages	Hits	Bandwidth
Jan	4719	6708	43161	191980	2.28 GB
Feb	4484	6821	40380	199659	1.95 GB
Mar	4902	7885	43572	221310	2.23 GB
Apr	6095	11180	75507	355225	3.77 GB
May	8695	21102	164407	687745	8.87 GB
Jun	8213	19481	110172	529919	6.77 GB
Jul	8279	19351	108757	517538	7.04 GB
Aug	52195	84966	420703	2595590	31.55 GB
Sep	10452	18835	73870	346455	5.24 GB
Oct	6366	10953	40950	191531	3.01 GB
Nov	5431	8878	33464	188974	4.22 GB
Dec	4378	7465	32000	153922	3.50 GB
Total	124209	223625	1186943	6179848	80.44 GB

3.7 Sponsors

In January 2005 letters together with preliminary application forms were distributed to 470 addresses, later in June 2005 brochures for sponsors and exhibitors were sent to 250 addresses by regular mail and to 470 addresses by e-mail. The list of exhibitors is given in section 5.3.

Academy of Sciences of the Czech Republic

American Astronomical Society sponsor of Program Book

Astronomical Institute of Academy of Sciences of the Czech Republic

Astronomy & Astrophysics sponsor of Posters

Auroton sponsor of Internet Room

ESO / IVOA sponsor of Internet Services

MediaStream sponsor of the High Speed Internet Connection and Web Video Streaming

National Academy of Sciences sponsor of Young Astronomers and Women in Astronomy Meetings

Office of Naval Research sponsor of Young Astronomers and Women in Astronomy Meetings

Peter Gruber Foundation sponsor of Inaugural Ceremony

T-Mobile sponsor of Wireless Internet Access

United Nations Office for Outer Space Affairs

3.8 Registration Fee

The originally proposed registration fee, resulting from the very first preliminary budget sent to IAU General Secretary in June 2000, was only 345 USD. It was based on the estimated total expenditures of the General Assembly for 2500 participants of about 34 million CZK and the rate of exchange of about 40CZK/USD that was valid at that time. However, two disadvantageous moments played a very negative role in the evolution of the registration fee level during the 6 years preceding the General Assembly, the first one being dominant:

- Unexpectedly rapid evolution of the rate of exchange between the Czech Crown and both US dollar and Euro; the Czech Crown steadily grew stronger and stronger from about 40CZK/USD and 35CZK/EUR in 2000 to some 22CZK/USD and 28CZK/EUR in August 2006, respectively.

- The growing IAU requirements for more and more rooms and associated services needed in the KCP, so that the total expenditures expressed in CZK grew from the original expectation of 34 million to final almost 40 million.

From this follows that the main cause for the relatively high registration fee (with respect to what we expected in the preliminary budget) was the evolution of USD and EUR with respect to CZK.

At all times the NOC and CBT did their best to keep the expenditures of all services as low as possible, by permanent negotiations with all providers, mainly the KCP. In view of this unhappy evolution, and also because of the fact that all contracts were signed with prices fixed in CZK, we decided well before the GA to fix the registration fee in CZK. This strategy was approved by the IAU EC in April 2005.

Thus the registration fee for regular participants was fixed to 16500CZK (early registration, before May 31) and 20500CZK (after that date); we allowed a substantially lower fee for registered guests (4500 and 6500 CZK respectively), and also for the students (under 35) and seniors (above 70) for 4500 and 5500 CZK, respectively. A special reduced registration fee was also granted for a limited number of participants, fulfilling specific conditions (see section Special Registration Fee below).

3.9 Special Registration Fee

Early in 2006 a strong pressure from Jay Pasachoff, the president of Commission 46 and co-chair of Special Session 2 started to allow a reduced fee also for the "teachers". Since this was a very vague definition (most of the astronomers are in a way teachers) that could eventually lead to a substantial hole in the budget, we were opposing this. There were also proposals from other potential participants, requiring a lower fee for those who wished to attend only a small part of the GA (one or two-day registration fee).

After lengthy discussions with the IAU General Secretary we finally decided to allow a special registration fee (equal to student/senior fee) for a limited number of non- astronomers, non-members of the IAU, who wished to participate only in a specific and short (typically one or two day long) session. Their application, containing a clear declaration that they would not attend any other session, had to be addressed to the vice-chair of the NOC, together with a recommendation by the chairperson of the session in question. The deadline for sending the application was originally set to April 9 (identical with the one for IAU grants), but later on it was postponed to May 31 (identical with the early registration).

21 such applications arrived, 4 of which were refused because the applicants either received an IAU grant for the whole GA, or were students and had to pay a reduced fee anyway. They attended JD11 (1), Commission 50 Business Session (3), SPS 2 (10) and SPS 3 (3).

3.10 Invited Speakers

There were four Invited Discourses by Jill Tarter, Shuang Nan Zhang, Alan Title and Reinhard Genzel. These invited speakers did not pay the registration fee. In the case of other key-note and invited speakers to the Symposia, JD and SPS, the level of financial support was covered from the finances of the event provided by the IAU according to SOC's recommendations.

3.11 IAU and other Travel Grants

The IAU grants were distributed by the GS IAU upon recommendations of the SOC's of individual events following the general IAU rules for grant allocations. It covered in some cases the registration fee and other expenses like accommodation and travel, however, in many cases only partially. Additional grants of the Academy of Sciences of the Czech Republic were distributed by the NOC covering the accommodation expense and the per diem.

3.12 Abstracts

The full electronic treatment of abstracts was initially planned to be prepared by one of our professional organizers, ICARIS. However, at the time of the second EC visit in November 2004 in Prague, the detailed treatment of abstracts was not demonstrated. GS requested a test with one abstract to see how it would be processed, which was not possible. GS IAU decided that IAU would order this service from a professional provider Oxford Abstracts (OA) and that IAU will cover this service financially. OA should prepare the abstracts for evaluation by SOC's and also the pdf version of all the abstracts for print of the Abstract Book.

But this service by OA was user unfriendly and rather rudimentary and it was necessary to devote a lot of additional work to display the abstracts on the GA website in a more user friendly form, to help the SOC's with reviewing and to prepare the Abstract Book for print. However, since ICARIS was excluded from this effects, all the load was on GS IAU and NOC/LOC (Cyril Ron, CBT and subproviders). When we asked the OA for minor changes, they answered immediately and they did well what we asked them for. But, if asked for a substantial change, they refused to proceed without new negotiation with the IAU. It was very uncomfortable situation.

The main problems of the OA service can be identified as:

1. OA accepted only MS Word files. For many astronomers it was an unsolvable problem, in particular for those who used the Sun machines, or Macs, or even PC's with Linux.
2. The abstracts had to be submitted as MS Word files using the OA template, but the system did not check if the author really used the template and observed the rules. As a result, about 15% of the abstracts were submitted in other formats (\LaTeX , open office, plain text - it would be the best solution, abiword, \LaTeX , Staroffice, pdf, ...) than MS Word! At first, we asked the authors to set the files right, but afterwards we had to do it ourselves (Cyril Ron, and in some cases the SOCs chairpersons themselves).
3. It was inconvenient to put the MS Word files on the web as one had to click on the link and then the MS Word program started to show the abstract. The body of an abstract contained neither the author's name, nor affiliation, only the title and the text of abstract. The other information was present somewhere in the data base but not accessible from the Internet. Thus to show all the abstracts on the GA web site we had to transform the particular MS Word files to the plain text and html, respectively. We produced a linux script that made this automatically once per week (we used the `wvText` and `wvHtml` procedures of linux). Later on, our Web designers (Graphic studio VLADO) contacted the OA and negotiated with them the RSS Feed (the window into their database) to be able to get more information to be shown on the GA web site, but we never obtained everything that we asked for.
4. The Abstract Book preparation was the nightmare of IAU General Secretary, Oddbjørn Engvold. OA provided only the individual MS Word files for each abstract. Only the immense joint effort of Oddbjørn Engvold and Cyril Ron guaranteed that the final printable pdf file of the Abstract Book was prepared for printing in time. The main problem, and in several cases an unsolvable one, was the nonchalance of submitters, as they did not follow the instructions for the abstract preparation.

After the GA, in December 2006, the web designer (VLADO) and professional organizer CBT presented to the IAU their joint project of an advanced model of a software custom built for IAU based on their experience (both bad and good) with the OA.

3.13 Visas

Visitors from non-EU countries had to possess a passport valid for at least the next 3 months. Participants requiring a visa had to apply immediately to the nearest consular office or a diplomatic mission of the Czech Republic in order to avoid a delayed arrival to the Conference. They were warned that the visa application procedure could take up to two months. It was not possible to obtain visa at the border or Prague Airport.

For more information and addresses of the Czech embassies the participants were instructed to visit the web page of Ministry of Foreign Affairs of the Czech Republic - www.mzv.cz (English version). The "Application for the Czech Visa" was available on the web page in electronic version, too.

In some cases a personal intervention of the NOC chair-person at the Embassies of the Czech Republic in Vietnam, India, Iran and other places was necessary to speed up the process of obtaining the visa.

3.14 Accommodation

Due to a large number of expected participants, and due to the popularity of Prague as a tourist destination, it was important to book accommodation in Hotels and Colleges well in advance. Therefore, the first booking were made by CBT in March 2004 when a total of 2 360 rooms were pre-booked (superior 360, first class 500, moderate 700, tourist 300, hostels 500). The structure of the hotel rooms has been changed following the remarks of IAU executive to have more cheaper rooms (800 rooms in hostels and student dormitories).

Descriptions of the hotels, apartments and university colleges listed in the Registration Form were included on the GA website. The booking of accommodation was provided through the web site, which was connected to the registration form on the web. The price per night of the hotels and apartments ranged from 15 -230 EUR. The first booking has been done in January 2006, the highest frequency of booking has been in June and July 2006.

One night deposit was required in advance to guarantee the booking for 5* and 4* hotels. Full prepayment was required in advance to guarantee the booking for lower category hotels including 3* category, and hostels. Upon receipt of the full prepayment the Conference Secretariat issued the Hotel Voucher and sent it to the participant. This Voucher had to be presented at the reception of the respective hotel upon arrival. There appeared complaints about these conditions and especially about the complete prepayment of the whole stay. For that reason the full prepayment has been changed to one night deposit since July 1.

3.14.1 Cancellation

The following conditions have been declared on the web pages concerning cancellation of the accommodation:

- before July 28, 2006 - full refund;
- before August 8, 2006 - 30% from the total price not refunded;
- 3 days prior to the arrival - 50% from the total price not refunded;
- 2 days prior to the arrival or less - no refund.

All the refunds have been processed after the Conference in 2006.

3.14.2 Final statistics of the accommodation

There were booked 1,243 rooms in 36 hotels or hostels through the GA website. The average stay in these hotels has been 7-8 days. The final accommodation numbers were:

5*	196 rooms
4*	325
3*	567
2*	62
hostels	93

Other accommodation Sixty five astronomers who have received the grant of Academy of Sciences of the Czech Republic were accommodated in the academic pensions 'Villa Lanna' and 'Na Marně' and in a University hostel. Several guests have been accommodated in the lodging houses of the Astronomical Institute either in Prague or at the Ondřejov observatory.

Of course, many astronomers chose the accommodation by their own.

3.15 Deadlines

April 9, 2006 Application for IAU grant closes

April 30, 2006 Deadline for application for the Fellowships of the Peter Gruber Foundation

May 10, 2006 Notification of IAU grant

May 31, 2006 End of early registration

June 1, 2006 Recommended deadline for hotel booking

June 26, 2006 End of abstract submission

June 30, 2006 Recommended registration for Media Accreditation

July 31, 2006 Recommended deadline for registration to Farewell Reception

August 7, 2006 End of late registration - after this date only on-site registration is possible

August 7, 2006 Deadline for the on-line Proceedings requests - after this date the purchase will be available only on the spot at the KCP

August 7, 2006 Deadline for the on-line Social & Tourist Program requests - after this date the limited number of the tickets will be available only on-site

August 10, 2006 Deadline for the on-line booking of accommodation.

August 12, 2006 On-site registration was open. For those, who registered early during the weekend 12 - 13 August, 2006, a lottery was organized. The 3 winners got tickets for the dinner for 2 persons at the seeing tower at Žižkov, Prague.

4 IAU 26th General Assembly

4.1 Registration

4.1.1 Conference Kit

At the registration, the participants were provided with a GA Conference Kit containing: the Program Book, the Abstract Book, the List of Participants and several other items such as name badge cover, List of Exhibitors (incl. the Exhibition Floor-Plan), Instructions for Speakers, Instructions for WiFi Connection, map of Prague, brochure - Astronomical Prague by Martin Šolc, list of restaurants surrounding KCP, a pencil, a notepad, information about lunches / ZOOM Restaurant, a booklet on Prague, and a booklet on Astronomical Institute of the Academy of Sciences of the Czech Republic. Other items inserted were leaflets of Blackwell Publishing, Cambridge Science Publishers, Cambridge University Press, Wiley VCH Verlag, 18th Conference on General Relativity and Gravitation, and XXIII Texas Symposium on Relativistic Astrophysics.

A special CD with the presentation ASTRO 2001 in English and German version was distributed to participants separately.

4.1.2 Registration Badges

Badges worn by GA participants were color-coded according to category:

IAU member	Blue
Invited Participant	Green
Registered Guest (including children)	Yellow
NOC/LOC Staff	Brown
Media/Press	Orange
Exhibitor	Light Blue
Executive Committee & IAU Staff	Gold
Visitor	Pink
Special Category	Black

4.2 Scientific Program

INVITED DISCOURSES

ID1	Jill Tarter: "The Evolution of Life in the Universe"	1109
ID2	Alan Title: "The Magnetic Field and its Effects on the Solar Atmosphere as Observed at High Resolution"	590
ID3	Shuang Nan Zhang: "Similar phenomena at different scales: Black Holes, Sun, Supernovae, Galaxies and Galaxy Clusters"	779
ID4	Reinhard Genzel: "The power of new experimental techniques in astronomy: Zooming in on the black hole in the Center of the Milky Way"	928

SYMPOSIA

S235	Evolution of Galaxies across the Hubble Time	807
S236	Near Earth Objects, our Celestial Neighbors: Opportunity and Risk	396
S237	Triggered Star Formation in a Turbulent ISM	489
S238	Black Holes: from Stars to Galaxies - across the Range of Masses	603
S239	Convection in Astrophysics	300
S240	Binary Stars as Critical Tools and Tests in Modern Astrophysics	498

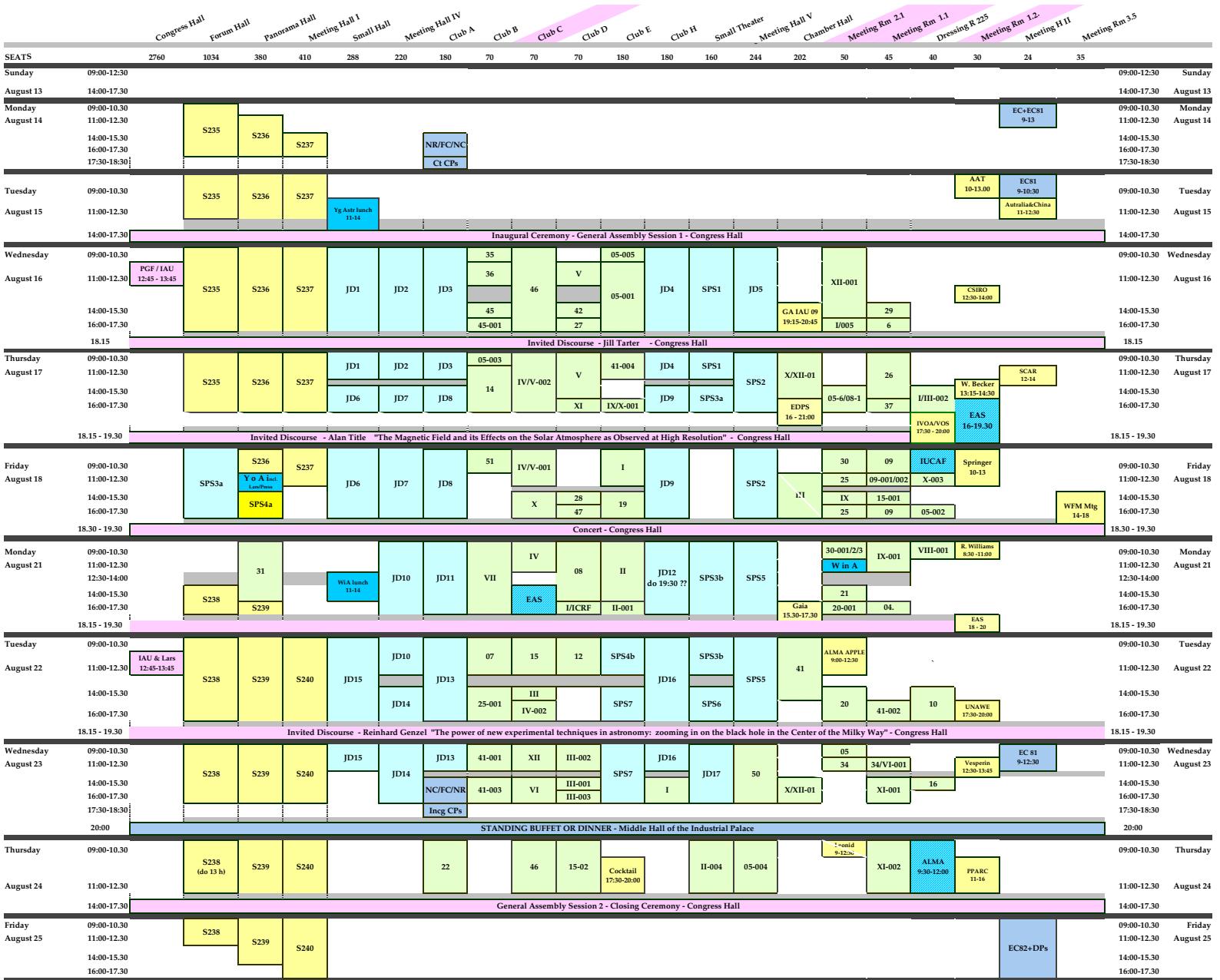
JOINT DISCUSSIONS

JD01	Particle Acceleration - from Solar System to AGN	241
JD02	Pulsar Emission and Related Phenomena	202
JD03	Solar Active Regions and 3D Magnetic Structure	237
JD04	The Ultraviolet Universe: Stars from Birth to Death	337
JD05	Calibrating the Top of the Stellar M-L Relation	199
JD06	Neutron Stars and Black Holes in Star Clusters	330
JD07	The Universe at $z>6$	532
JD08	Solar and Stellar Activity Cycles	318
JD09	Supernovae: One Millennium after SN1006	293
JD10	Progress in Planetary Exploration Missions	307
JD11	Pre-Solar Grains as Astrophysical Tools	137
JD12	Long Wavelength Astrophysics	279
JD13	Exploiting Large Surveys for Galactic Astronomy	365
JD14	Modelling Dense Stellar Systems	203
JD15	New Cosmology Results from the Spitzer Space Telescope	425
JD16	Nomenclature, Precession and New Models in Fundamental Astronomy	203
JD17	Highlights of Recent Progress in the Seismology of the Sun and Sun-like Stars	202

SPECIAL SESSIONS

SPS1	Astronomical Facilities of the Next Decade	732
SPS2	Innovation in Teaching/Learning Astronomy Methods	400
SPS3	The Virtual Observatory in Action: New Science, New Technology, and Next Generation Facilities	501
SPS4	"Hot Topics"	299
SPS5	Astronomy for the Developing World	280
SPS6	Astronomical Data Management	292
SPS7	Astronomy in Antarctica	250

At the r.h.s. the numbers of those participants are given, who assigned the event at the registration form.



4.3 Opening Ceremony

Considerable effort was put into the planning of the Inaugural ceremony. The program and performers were discussed at the NOC/LOC meetings during more than one year. The final scenario was worked out by Mrs. Monika Šenderová of CBT.

The formal GA opening ceremony on Tuesday, August 15, 2006 was held in the Congress Hall of KCP with an audience of about 2,000 people.

Master of Ceremonies:

Jan Palouš, *Chairman of NOC*

Opening of the XXVIth GA:

Ronald D. Ekers, *President of IAU 2003-2006*

Anthem of the Czech Republic:

Lesser Town Singers²

Attending:

Václav Mravec, *Head of the International Department of the Office of the President of the Czech Republic*
Václav Klaus

Official Addresses:

Miloš Gregar, *Representative of the town Prague*
Václav Pačes, *President of Academy of Sciences of the Czech Republic*

Jana Musilová, *Vice-Rector, Masaryk University in Brno*

Jan Bednář, *Vice-Rector, Charles University in Prague*

Václav Havlíček, *Rector, Czech Technical University in Prague*

Luboš Perek, *Emeritus, AI ASCR.*

Children's Traditional Ensemble "Rosénka"³

Peter Gruber Foundation

Lesser Town Singers

Alena Hadravová *Research Center for the History of Sciences and Humanities*

Welcome after 39 years:

Performance:

Presentation of the 2006 Cosmology Prize:

Performance:

Astronomy in Prague: From the Past to the Present:

The Peter Gruber Foundation presents international prizes in Cosmology, Genetics, Neuroscience, Justice, and Women's Rights. Each prize is valued this year at US \$250,000. The Foundation's goal is to recognize, honour, and encourage individuals who have transformed their fields, and by shining a Spotlight on them, encourage others to follow in their footsteps. The Foundation, in cooperation with the IAU, also recognizes promising young investigators in cosmology every three years.

The Opening ceremony was followed by the Session I of IAU General Assembly and the Cocktail in the exhibition area, respectively. The exhibition area provided a wonderful view almost of the whole Prague.

The cost of the Opening has been included in the registration fee. Price per extra ticket was CZK 400 (approx. 14 EUR).

² **Lesser Town Singers:** was established in 1996 as a group of fifteen young musical enthusiasts – mostly students of various Prague high schools. After relatively short period of existence, they have built a large repertoire concentrating on spiritual music from different historical periods and countries, as well as on lighter genres (swing and jazz). In the following years they have enjoyed the opportunity to sing in various cities, churches and concert halls all around the Czech Republic. In 2005 the choir completed a successful concert tour of the USA.

³ **Children traditional ensemble Rosénka:** (cimbalom music with folk dancers) has been established in 1982. The repertory comes out of the nursery rhymes, games, songs and dances from Moravian areas Dolňácko (near Uherské Hradiště) and Slovácko. The original group of 35 members has spread to 130 children and young people at the age of 5 to 25 years. They are divided to the six independent groups and two folk music ensembles. At the present time Rosénka decorates most of the prestigious folk and other cultural events and belongs to the absolute top of folk ensembles in the Czech Republic. This is proved by many prizes from both inland and foreign festivals.

4.4 Concert

The Concert of Prague Philharmonia⁴ was performed on Friday, August 18, 2006 in the Congress Hall of Prague Congress Centre at 6.30 p.m. The cost of this event was included in the registration fee. Price per extra ticket was CZK 400 (approx. 14 EUR). The program of the concert was as follows:

W.A Mozart	La Clemenza di Tito (first performed publicly on September 6, 1791 in Prague.),
A. Dvořák	The Czech Suite in D Major, Op. 39
J. Šaroun	The Lights (first performed publicly here),
W. A. Mozart	Symphony in D Major, No.38, KV 504 "Prague".

The genres of Prague and Czech landscape were projected during the performance that could disturb somebody of audience at listening and moreover, the noise of the projectors was too high close to them in the back rows of the Congress Hall. Even in view of these problems the concert was appreciated by the audience.

4.5 Closing Ceremony

The vote on the Resolutions relating to Pluto put the Closing Ceremony and the Plenary Session II into the center of attention of media. About twenty TV-crews took part in the Closing ceremony on Thursday, August 24, 14:00 - 17:30 in the KCP.

The vocal quartet Affetto opened the Plenary Session II by its program of mediaeval songs that took 10 minutes. First the IAU Secretary announced 925 new individual members of IAU and welcomed those presented in the audience. After the report of Resolutions Committee and the excellent and spectacular presentation by J. Bell concerning the new definition of planets in solar system, the vote for the resolutions started. The voting procedure adopted during the meeting was sufficient in case of the great majority agreed or disagreed but in case of the equilibrium of the positive and negative votes appeared the problem with computing the votes in the large hall. The possibility of hiring out a voting machine was discussed by NOC/LOC but the price was too high and the procedure was set up to the acclamation with the yellow voting cards which only the IAU members obtained at the entrances to the Congress Hall.

The LOC was asked for providing an effective means of respectful scrolling through 173 names of members deceased since the previous GA. Then the new membership in the executive bodies of IAU were introduced. As expected, Catherine Cesarsky was elected as the IAU President for the period 2006-2009. The President-Elect is Robert S. Williams. Brazilian organizers of the next GA27 presented the venue, and Beijing was announced for the 2012 GA (August 12-25).

4.6 Farewell Reception

On Wednesday, August 23 the participants were invited to the Industrial Palace, where the Farewell Reception was held. The palace, built in 1891 in late 19th-century decorative style, is located in a northern part of the city, in the area of Prague Exhibition Grounds.

The whole program evoked the period between two world wars by the properties as old cars, music and clothing of the hostesses. The swing band⁵ together with the Master of Ceremonies (Ondřej Havelka) put the guests into the whirl of dance so that the floor was not sufficient for the dancing couples. The evening was

⁴The Prague Philharmonia was founded in 1994. Its fundamental instrumentation is based on the Viennese classical orchestra, which can be augmented and altered according to the repertoire needs. The orchestra's repertoire focuses on masterpieces of the Classical and Romantic periods as well as music of the twentieth century, including works by neglected composers, rarely-played pieces, and new works by contemporary composers. From the outset, the Prague Philharmonia's Chief Conductor has been its founder Jiří Bělohlávek. From 2005/06 season a position of Chief Conductor was overtaken by Kaspar Zehnder. The Prague Philharmonia continues to collaborate with Principal Guest Conductor Michel Swierczewski and young Czech conductor Jakub Hruša. In April 2005, the Prague Philharmonia was a partner to Luciano Pavarotti on his farewell concert in Prague.

⁵Havelka Sisters & Havelka Sisters Band is an ensemble of twelve enthusiastic musicians who have all succumbed to early swings. For many years, they have been walking their audiences through the period between the wars, a period filled with rhythm, dance, inspiration, pure ideals, and romantic loves and dreams. The ensemble is composed of a ladies' vocal quartet and an eight-member orchestra: piano, tenor saxophone, alt saxophone, trumpet, violinophone, guitar, percussion, and bass.

closed by the water and light show on Smetana's music at the Křížk's Fountain beside of the Industrial Palace. The show took 50 minutes and finished just before 1 a.m. Probably it was too late for most of guests because only less than 100 viewers remained to the end of the show. Hot, cold buffet and drinks were available.

During 2005 NOC/LOC still hoped that it will be possible to offer the Farewell Reception free of charge. In this case we expected about 1500 guests. Early, in 2006 when the application for support at the Ministry of Education failed, we concluded that the budget does not allow free of charge access. We started a discussion on the price per ticket and also on the number of attendees, which probably would reduce if we include any charge. As a result we expected 1/2, e.g. 750 attendees, and we set the price to 30 EUR per person, which was about one half of the real price. The on-line registration for this event was open at the GA web page at On-Line Social & Tourist Program Form.

As a final result 422 tickets have been sold, and 135 persons were invited free of charge (SOC's members, LOC/NOC members, EC IAU, etc.).

4.7 Audio-Visual Facilities

At the very beginning of the GA preparation the LOC discussed what kind of audiovisual (AV) facilities would be required by presenters. We took into consideration the recommendation of the NOC of the 25th GA Assembly in Sydney that "*for future GA meetings, full AV facilities should be factored into the initial planning and budgeting.*" It has been decided to support not only the Microsoft software (PowerPoint) but also the open source programs and other common formats of presentations (it means OpenOffice, pdf, ps and html formats). We wanted to enable the presentations of the special movies and for the Mac users too. Therefore, the private laptops could be hooked into all rooms equipped for data projection. The supported formats and software together their versions installed to the PCs in the rooms (MS PowerPoint, OpenOffice Impress, Adobe Acrobat Reader, Windows Media Player, QuickTime, Ghostview) were presented well before the beginning of the GA at the web page. Accordingly, the general policy was established that full facilities, including transparency projection would be provided for all Symposia, Joint Discussions, Special Sessions and Invited Discourses and even for the smaller meetings, for example Commission, Division and EC meetings.

The first calculated provision of AV facilities from KCP for the IAU GA have been "astronomically" expensive as well. The LOC thought about limiting the use of AV facilities to the major meetings only. But later, after many hard and long negotiations between LOC (mostly Z. Tesařová and J. Palouš) and KCP the provision reached the normal and tolerable cost.

The LOC provided at the 3rd floor in KCP a "Speaker Preparation Room" equipped with the same hardware and software as those used in the session rooms to enable to check the presentations (and modify them) if necessary. For those using their own laptop, a few extra LCD displays were available to check if the video-signal output to the data projector has been working flawlessly. All participants obtained the "Instruction for Speakers" which were included in the Conference Kit. All speakers were strongly advised to report to the Speaker Preparation Room well before (3-4 hours in minimum) their talk.

It should be noted that the AV facilities and presentation support, in conjunction with support of staff in the Speaker Preparation Room and in the session rooms, were outstanding. Many speakers praised the high quality of the facilities and the absence of presentation disruptions.

4.8 Posters

In the initial planning, all posters were to be located in the Terrace I, Terrace II and in the part of Congress Hall Foyer(2nd floor). The planned use of these areas was based on a maximum of about 800 posters displayed at any one time, with a poster changeover during the weekend within the GA period. However, the NOC had agreed to display all posters approved by meeting SOCs, and the final number of requested poster reached 1,550. At the beginning of July, the large discrepancy appeared between requests for poster allocations during the first and second week of the GA. In view of this, the LOC decided to create more space for the participants by exchanging the Congress Hall Foyer with the South Hall (3rd floor). Thanks to the negotiations with the

KCP, no additional costs were charged. The posters have been allocated with the aim that the posters of certain event should be located together, and that the poster area and the session room of an event should be as close as possible.

There was a total of 1070 poster boards with a portrait format of an effective area 97 cm (width) x 180 cm (height). This effective area was covered by a carpet-like surface and the posters were fixed only with pins. The poster boards were almost fully occupied during the first week and half occupied during the second week.

4.9 GA Newspaper

Every workday a newspaper *Dissertatio cum Nuncio Sidereo III* was issued that provided a symbolic link to the astronomical past of the Czech Lands when Johannes Kepler published in Prague his work *Dissertatio cum Nuncio Sidereo* in 1610, and when the newspaper *Dissertatio cum Nuncio Sidereo II* was issued during the Prague IAU General Assembly in 1967.

The daily Newspaper was prepared by the editorial board composed of the editor in chief and 8 reporters, 2 technical editors, 2 cartoonists, 2 secretaries and the language editor. Due to a large number of contributions, starting from No. 7 an electronic supplement appeared on GA website. 4 numbers were composed of 8 pages (format A3) and the remaining 6 numbers included 4 pages (format A3) only. 3000 copies were produced with the exception of the last number, when only 2000 copies were produced. Selected articles were translated into Czech and published on the website of the Czech Astronomical Society.

4.10 Women in Astronomy Meeting

The Women in Astronomy lunch was held on Monday 21 August from 12:30 p.m. to 2:00 p.m. The Lunch Meeting was preceded by a business meeting of the IAU Working Group for Women in Astronomy. The Women in Astronomy lunch was attended by the current president of the IAU Ron Ekers, the incoming President Catherine Cesarsky, the first woman to hold this position, the General Secretary and Vice-Presidents, many senior astronomers, as well as young astronomers and students. The total number of participants was 301 coming from 49 countries. The geographical distribution was adequate, ranging from large, developed countries (United States, Russian Federation, Germany, Italy, France, United Kingdom) to developing countries (Armenia, Honduras, Indonesia, Iran, Macedonia, Philippines, Trinidad & Tobago, Viet Nam). The large majority, 92 percent of participants, consists of women. The meeting was hosted by the Working Group for Women in Astronomy and was chaired by the co-chair of this WG Anne Green.

The focus of this meeting was on changes in the status of women in astronomy since the 2003 General Assembly in Sydney and on formulation of strategies that will improve the environment for all astronomers.

All participants received a copy of The Baltimore Charter for Women in Astronomy.

The keynote speakers were Prof. Sunetra Giridhar (Indian Institute of Astronomy, Bangalore, India) and Dr. Patricia Knezek (WYIN Observatory, Arizona, USA). The subject of the meeting was Career Development for Women.

Sunetra Giridhar started her talk with information about women literacy in India. It is 54.16 % and it is increasing (for both genders), but very different in different parts of India. The proportion of women in astronomy is increasing in India in the last few decades, also in senior positions, but only in states where the women literacy increases (for example in Maharashtra, West Bengal). Some of Indian women in astronomy are working abroad. There is a plan prepared by the departments of science and Technology SERC named "Women Scientist Scheme" three year grants for women to obtain sufficient results helping them to get a good positions.

Patricia Knezek spoke about "Women in astronomy in the AAS community: Past + Present = Plan for the Future". She presented various statistics showing the position of women in astronomy in the past and during recent years. There are a lot of young women interested in astronomy during their student years (The 60% Cohort in the U.S.). If the female proportion in astronomy declines with age, being highest for students and smallest in permanent positions, then the main question is: where do these women go? Why women still seem to be either slow or leave their careers? The first step is a more detailed statistical survey in the astronomical

community, although the background could vary between countries. The situation also varies widely from institution to institution. There is a substantial need to establish reliable, well understood statistics. As a second step we need to answer the question why. The AAS/AIP is working on The Longitudinal Study of Astronomical Career Path. There is not only the traditional view of success, but there are another alternative career ways. The astronomical land is changing now. Large collaborative efforts are increasing; demand for education is increasing as well as roles in science and university management, public outreach, science policy, programming, instrumentation. In this way many varied fields are opening for “career” in astronomy. The main point is that full participation of men and women in astronomy will maximize the excellence in the field.

These two presentations were followed by discussions in breakout groups of 10 on five most important issues over lunch: Unequal opportunity “has discrimination gone underground? Mentoring and self-confidence” does women network work effectively or are our discussions supportive but not constructive? How can we upwardly manage our careers better? Do young women astronomers need more role models? Who makes an effective mentor? Suggestions and strategies for building self-confidence are women more reluctant to promote themselves? Anecdotal evidence suggests that women base their application on past achievements rather than on their potentials for a job, which men do. Do you agree? Family responsibilities is there an easier time to manage having children? What kind of provision for child-care is critical at workplaces and conferences? After a career interruption, is your re-entry at a lower level, which then makes the path to senior position a longer one? Since women are still (generally) the primary caregivers, is there a greater vulnerability for research disruption and exclusion from time critical projects? Dual careers equal advancement of two careers is extremely difficult. Lack of mobility often affects women more than men. How can we mitigate this? How can we encourage greater consideration of options for partners? Can we make a paradigm shift so that a non-standard career path is not a disadvantage? What do recent statistics tell us? Now that the gender imbalance at school and university has largely disappeared, how do we ensure this translates into greater representation for women in permanent and senior appointments, in positions that carry decision-making responsibilities and prestige?

Members of these randomly created table-groups could exchange and share various points of views coming from different countries and various types of institutions. These discussions were very interesting, deep and detailed, and women in astronomy were very active in them.

Then results of these groups were reported back to the plenary session at the end of meeting.

The following action items were submitted to the incoming IAU Executive: ensure adequate representation for women in IAU bodies, on Science Organizing Committees and as invited speakers for Symposia, make the provision of childcare at meetings, either supplied or paid for, a priority. By the way, this General Assembly of the IAU has started a new era with the first woman elected for the IAU president Catherine Cesarsky. It was also mentioned that the IAU gender statistics gives an incomplete picture because younger astronomers, both men and women, are not usually members of the IAU.

This Women in Astronomy meeting was an excellent opportunity to exchange ideas and experience. Organizers hope to prepare such meeting again for the next GA IAU in Rio de Janeiro in 2009 and next such meeting would be very helpful to improve the environment for women in astronomy.

4.11 Young Astronomers

This year at General Assembly of IAU two new initiatives for young astronomers were established. They are the lunch-debate or lunch-discussions and consulting service. The purpose of these events is to mediate contact between young astronomers and experienced astronomers from various countries and institutions like ESA, NASA, ESO, etc.

The lunch-discussions took place last Tuesday. It was organized as a buffet with discussions of young astronomers with the guest astronomers at the round tables. There were 20 round tables with 11 participants — 9 of whom were young astronomers and 2 were guest astronomers. At the round tables 2 to 3 themes were discussed. They were chosen according to suggestions and votes of young astronomers through web interface before the General Assembly started. The themes touched three main areas — one being about institutions like ESA, NASA and possibilities for young astronomers, second were CV, applications for postdocs and job

opportunities and the third one was concerning the job of the scientist, e.g. how one can cope with so many papers published each day. At this event there were about 180 young astronomers and 41 guest astronomers. As far as we have some feedback from conversations with participants it was quite successful. The assessment questionnaires were filled in by participants at the end of the lunch-discussions but we have not yet finished their evaluation. Out of these questionnaires we will make a draw and one of the participants will get free admission to the next General Assembly in three years in Rio de Janeiro (given to her or him by IAU).

The other event, the consulting service, is taking place during the whole General Assembly. It's purpose is to mediate one-to-one discussions between the young astronomer and the consultant. We have 82 consultants now who are ready to help young astronomers. They registered as consultants before the General Assembly started either through web interface or by mail. It is still possible to do it now. Several discussions between young astronomers and consultants have already taken place. At the end of the General Assembly we again will produce an assessment questionnaire in the form of the web page so that we have feedback on how successful this initiative was.

5 Additional Functions

5.1 Internet Room and Internet Access

When planning the concept of the Internet Room and the Internet access for participants in general, LOC had to estimate the number of PC stations and free connection points that would be sufficient on one hand and not very costly on the other. Since the rental price of a computer offered by KCP exceeded the price of a new PC on the market, we were hinted either to buy some brand new computers or to search for sponsors. In spring 2006, we were contacted by the managing director of 'AUROTON Computer', the amateur astronomer, who offered us 15 equipped PCs and one printer free of charge. The AUROTON became an official sponsor to GA in this way. Moreover, LOC managed to negotiate a free wireless access with T-Mobile CZ for 500 simultaneous connections to be available across the whole building. Beside the 15 workstations in the Internet Room, we also decided to prepare 30 seats with just network cables and power outlets for users with laptops and additional 20 seats with only power outlets for wireless capable laptops.

The LOC became nervous on August 10, three days before the beginning of GA, as the news on the revealed terror plot at Heathrow and Gatwick airports in England appeared. Besides numerous cancellations (about 20 participants gave the reason of the cancellation the terror plot), rumor had it that the flight passengers are not allowed to take their laptops into the plane, even that the USB Flash drives have been forbidden. As a reaction, five more workstations have been hired from a local computer supplier (130EUR per PC) and 50 cheap USB Flash drives have been bought (only 10 have been demanded by participants later).

The Internet Room performed extremely successfully and was used intensively by the participants. Although from time to time there was a queue for the PCs (especially after lunch), it was rarely more than ten people long.

Computers in the Internet Room were connected to the 100Mbps network with low-priority packet handling, so that it did not block more important scientific applications in the periods of high network load. This excellent high-speed connectivity was much appreciated among participants while they downloaded resources for their unfinished presentations, sent digital photographs to their homes, etc. It was even possible to backup a full hard-drive for a lady who suffered a broken laptop. All PCs were equipped with LCD screen, dual operating system (Windows XP / SUSE Linux 10) and with the essential set of office, network and multimedia software.

Also important was the constant presence of an attendance, who was ready to assist people with various problems. Together with the experts from the Speaker Preparation Room they managed to solve practically all technical difficulties that people were coming with. From banal stuff like configuring the wireless access to more difficult like already mentioned hard-drive backup from a non-working laptop.

It was decided by LOC not to follow the feedback from Sydney on the provision of PC stations without seats to speed up the user turnover. And this decision turned out to be a good one. Many people came with

unfinished presentations and they spent time with a computer making some final editing. Thus we rather recommend to provide enough computer capacity to serve people needs without making long queues. We think some 30 computers and 40 places for people with laptops is sufficient.

All around the KCP building we had an open and free wireless connection ready to serve up to 500 users simultaneously. It was operated by T-Mobile CZ as a sponsorship. The limit of 500 users was estimated by LOC prior to the conference and the actual usage of the wireless network did reach it only a few times. The wireless connection served with no problems and 18370 of individual connections to the Internet were made that lasted 15500 hours in total; about 250 GB of data were transmitted during the whole General Assembly only through wireless. This corresponds to approximately 1800 fifty-minute connections each day.

5.2 Internet live streaming and video archive

At the beginning of 2006 the people from IVOA asked LOC for the high speed connection in their exhibition stand. LOC has contacted MediaStream. They provided it and as a by-product of the high speed connection they offered to the LOC to prepare recording and the Internet live streaming (and archiving) of the main events of the General Assembly. Live streaming during General Assembly have visited 8122 live viewers in total during the GA. Most viewed show was General Assembly Session 2 (final Planet Definition vote) with 5056 viewers.

The "Top 10" list of shows during General Assembly in order of number of views:

1. Discussion on the Definition of a Planet	6943
2. General Assembly Session 2 (Planet Definition vote)	6102
3. General Assembly Opening Ceremony	3170
4. Invited Discourse - Jill Tarter	1483
5. General Assembly Closing Ceremony	781
6. General Assembly Session 1	590
7. Invited Discourse - Alan Title	564
8. Invited Discourse - Shuang Nan Zhang	439
9. Peter Gruber Foundation Cosmology Prize Winner Lecture	433
10. Invited Discourse - Reinhard Genzel	358

The video archive has sustained rate of 450 views per day in the first month after General Assembly. As agreed, video archive will be available for at least 3 years. Based on current estimates, we predict to reach 100,000 total views by the time of next General Assembly in Rio.

5.3 Exhibition

Stand 1 - AstroGrid the UK's Virtual Observatory System

Stand 2 - Elsevier academic publishers

Stand 3 - Western Australia Radio Astronomy

Stand 4 - Cambridge University Press publisher of the Proceedings of the International Astronomical Union

Stand 5 - Gemini Observatory

Stand 6 - Centre de Donnees astronomiques de Strasbourg

Stand 7 - American Astronomical Society

Stand 8 - Astronomy & Astrophysics - EDP Sciences

Stand 9 - 10 - International Virtual Observatory Alliance (IVOA)

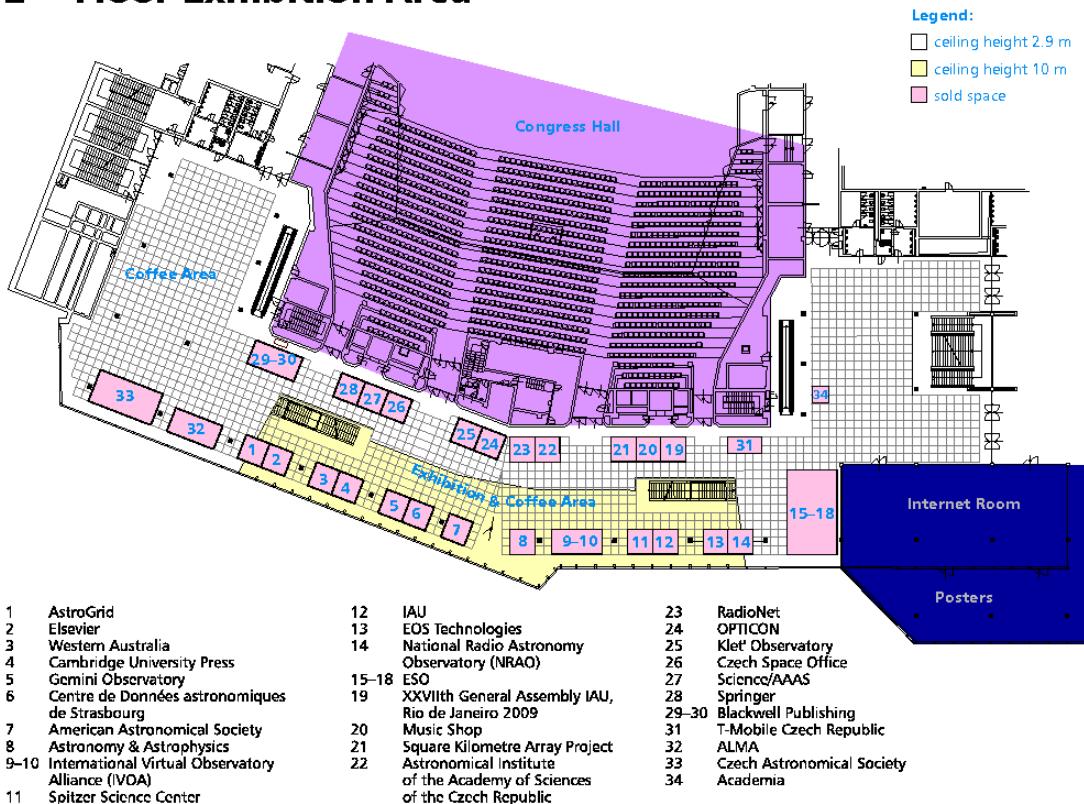
Stand 11 - Spitzer Science Center

Stand 12- IAU-UAI

Stand 13 - EOS Technologies, Inc.

Stand 14 - National Radio Astronomical Observatory

2nd Floor Exhibition Area



Stand 15 - 18 - European Souther Observatory - ESO
Stand 19 - JZ Congressos, IAU / XXVIIth General Assembly — IAU 2009
Stand 20 - Music Shop
Stand 21 - Square Kilometre Array Project
Stand 22 - Astronomical Institute, Academy of Sciences of the Czech Republic
Stand 23 - RadioNet
Stand 24 - OPTICON the OPTical Infrared CO-ordination Network for astronomy
Stand 25 - Klet' Observatory
Stand 26 - Czech Space Office - Česká kosmická kancelář, o.p.s.
Stand 27 - Science/AAAS
Stand 28 -Springer
Stand 29-30 - Blackwell Publishing Ltd
Stand 31 - T-Mobile Czech Republic a.s.
Stand 32- ALMA the Atacama Large Millimeter Array
Stand 33 - Observatories in the Czech Republic - Czech Astronomical Society
Stand 34 - Academia , publishing house of the Academy of Sciences of the Czech Republic.

5.4 Tour Programs

The tour program was planned and managed by CBT. Tour booking forms were provided on the GA website. Tours could also be booked during GA in the Reception Area. The list of the tours with the number of participants follows:

Grand City Tour with Visit to Prague Castle	329
Prague Boat Trip with Dinner/Lunch & Music	252
A Cosmic Celebration of Czech Beer, Brewery U Fleků	141
Český Šternberk and Ceasar Bohemia Glass Factory	59
Jewish Ghetto and Old Town Square	56
Trip to Castle Karlštejn & Nižbor Glass Factory	82
Trip to Konopiště Chateau	88
Trip to Kokořín Castle	39
Trip to Křivoklát Castle	10
Medieval Town of Kutná Hora	133
Trip to Mělník Chateau with Wine Tasting	40
Lesser Town & Charles Bridge, Old Town	36
Excursion to Ondřejov Astronomical Observatory	152
Palaces and Gardens in the Lesser Town	74
Visit to the Pilsner Urquell Brewery & Kozel Chateau	16
West Bohemian Spas	79
Trip to Benátky nad Jizerou (Tycho's Observatory)	23
Extra tours through Astronomical Prague - organized by Mrs. A. Šolcová	72
Total: 22 events	2108

5.5 Associated Events

Accompanying events not covered by Conference Budget / or partly.

EC 81 Meeting	13/08	09:00	Academy of Sciences	35
Dinner at Vila Lanna	14/08	20:00	Vila Lanna	40
Young Astronomers Meeting	15/08	11:00	Small Hall	200
Peter Gruber Foundation - Gala Dinner	15/08	20:00	Stone Bell House	60
Reception by Lord Mayor of Prague	15/08	18:30	Old Town Hall	120
EAS Meeting	17/08	16:00	Meeting Room 1.2	
EDP Sciences	17/08	16:00	Chamber Hall	500
USNA Reception	17/08	20:00	Palffy Palace, Lesser Town	125
IUCAF: RAS Club Dinner	20/08	19:00	Restaurant Zvonice	20–30
ESO: ALMA Meeting	21/08	09:00	Dressing Room 225	
Women in Astronomy Meeting	21/08	11:00	Room 2.1.	50
		12:30	Small Hall	300
EAS General Assembly	21/08	14:00	Club C	
ESA: GAIA Meeting	21/08	15:30	Chamber Hall	
Farewell Reception	23/08	20:00	Industrial Palace	560
EC 82 Meeting	25/08	09:00	Meeting Hall II	35

Inter-Union Commission for the History of Astronomy (ICHA) organized the Colloquium "Astronomy in Prague in the Mirror of Centuries" on the history of astronomy in and around Prague. This supplementary program to IAU GA 2006 was organized during the weekend August 19 – 20 and consisted in following events. Number of participants is given in parentheses:

1. Review on Prague astronomical monuments (150),
2. Walk through Astronomical Prague – Old Town (160),
3. Discussion, Walk through Astronomical Prague – Lesser Town (68)
4. One-day bus trip "Astronomy in East-Bohemia" to visit the towns Jaroměř-Josefov, Žamberk and Litomyšl in traces of astronomers Wilhelm von Biela, Theodor Brorsen, August Seydler and Zdeněk Kopal (50)

6 Publicity

The introductory Press Conference for Czech journalists took place in the building of the Academy of Sciences in Prague, before the opening of the General Assembly, on August 10. Daily press conferences took place during the meetings, directly in the Congress Center, in which both officers of the IAU and important world astronomers participated. The General Assembly was mostly covered by the stations of the Czech Radio (Radiožurnál, Praha, Vltava, Leonardo, ČRo 6), but also by the Czech press and Czech TV which provided service to many TV companies in abroad. There were 125 domestic and 70 international journalists and press agencies accredited. The eye-witnesses of IAU General Assemblies agreed that this Prague General Assembly had the highest publicity in the history.

More information is in the report 'The public communication at the IAU GA 2006' by Christensen et al. (2006).

7 Experience gathered from 26th GA IAU in Prague

Over 7 years preceding 26th GA IAU, during its realization, and during the post-GA period until March 2007, the organizers gathered a lot of special experience. Here, we try to review it for the use of the next GA IAU organizers.

7.1 Work load by the individual NOC/LOC members

Work load on the 26th GA organizers was constantly growing and differed dramatically if we compare individual NOC/LOC members. In the case of NOC chair and vice-chair persons, the work load was constantly growing from 10% of the overall working time in 2001 through 50% in the spring of 2005 to 100% since the beginning of 2006. The work load of other NOC members was kept below 10% over all the years. Since October 2004, when the LOC was established, a similar situation was developed: the LOC chair-person started at the level 10% in October 2004, which increased to 50% in the spring of 2005 up to 100% since the beginning of 2006. Here, we do not evaluate the work load of the professional congress organizers CBT and ICARIS.

7.2 Time line of organizational steps

- December 1999 - letter of intent sent to GS IAU;
- June 2000 - a complete proposal including venue and budget issued;
- August 2000 - decision of the EC on the 26th GA;
- January 2001 - NOC chair and vice-chair elected by National Committee on Astronomy (NKA);
- March 2001 - complete NOC appointed by NKA;
- May 2001 - professional conference organizer CBT and sub-provider ICARIS selected;
- July 2001 - preliminary reservation of the Prague Congress Center for the fixed dates August 14 - 25, 2006 issued;
- November 2001 - visit of GS and AGS in Prague;
- February 2002 - a system of contracts between Astronomical Institute ASCR - CBT - ICARIS developed. The contract with ICARIS was signed later, after fixing the profit of the ICARIS, who was reluctant to sign before it;
- October 2002 - definitive contract on reservation of the Prague Congress Center and other services signed, only two thirds of the finally used capacity were contracted at that time;
- December 2002 - Logo of the 26th GA IAU developed;
- January 2003 - First announcement leaflet produced;
- February 2003 - website **www.astronomy2006.com** opened, it has been upgraded up to 2006;
- March 2003 - the poem "... are there frogs there too" by Jan Neruda was translated into Czech and printed as a part of GA promotion;
- April 2003 - a 31 min. movie on "Astronomy in the Czech Republic" produced. It was evaluated as the best movie with the scientific subjects produced in 2003 in the Czech Republic and later it was shown in the Czech TV channel 1.
- July 2003 - 25th GA in Sydney: stand in the exhibition area was established, where the First announcement, "... are there frogs there too", movie on the Czech astronomy and other materials were distributed. At the closing ceremony Jan Palouš invited 25th GA participants to the next GA in Prague.
- March 2004 - visit of the IAU Executive in the Prague Congress Center;
- October 2004 - LOC established;

- March 2005 - application for the financial support at the level 10 MCZK from the government of the Czech Republic issued;
- April 2005 - EC decided on the general framework of the GA program, registration fee fixed in CZK;
- November 2005 - on-line registration opened. In the case of the positive result of the governmental grant we were ready to decrease the fee and return a part to those who did pay early;
- February 2006 - governmental grant fails, final reservation of almost complete capacity of the Prague Congress Center (one third more with respect to the first contract of October 2002);
- April 2006 - IAU grants distributed;
- 31st May 2006 - early registration finishes. It was postponed from 15th April 2006;
- 26th June 2006 - deadline for sending abstracts;
- 15th July 2006 - deadline for SOC chairs to deliver the detailed program of their events for the Program Book.
- 7th August 2006 - deadline of the on-line registration;
- 12th August 2006 - on-site registration opens;
- 14th to 25th August 2006 - 26th GA IAU;
- 25th November 2006 - deadline for proceedings of the Symposia and other events;
- February 2007 - draft report on the 26th GA IAU sent to GS, final 23th meeting of the NOC/LOC;
- March 2007 - financial audit performed, final version of the 26th GA IAU report produced.

7.3 Lessons learned from 26th GA IAU

7.3.1 Selection of the scientific program

The most important step in the preparation of the GA is the selection of the framework for the scientific program by the EC. Obviously, it depends on the proposals and previous interest and trust of the astronomical community to the importance of the GA. The screening of the proposals, critical review and the final choice are extremely important. It should be scientifically actual and interesting involving the first class key-note speakers.

We do consider 18 months before GA as sufficient for preparation of detailed programs of individual events based on selected good proposals. Very important is the selection and early invitation of top-class key-note speakers. It should be done well in advance, about 12 months before GA, otherwise they are booked for other conferences. All the invitations should be done before the end of the year preceding the GA. It is also a delicate astro-political item, since if you miss to invite someone, who considers himself as a key-person, he probably would not come to GA at all. Another part of this experience is that only about 50% of the invited speakers, who did promise to come, will really show up at the conference. Therefore, we strongly recommend to construct a sufficiently long reserve list.

7.3.2 Selection of a professional conference provider

Selection of a proper professional conference provider is crucial for the success of the GA. The decision should be taken well in advance (more than 5 years before GA in our case). Our choice of the CBT agency was extremely successful.

7.3.3 Participants

It should be a broad audience from different countries. It depends on their finances and on the distribution of IAU and other grants. A controversial situation is that allocation of travel money frequently depends on the fact if a contribution is accepted as oral. In many cases it could not have been done before 26th June 2006, when was the deadline for abstract submission. But this was too late for money allocation from a potential institution. Another objection was that there were too few holes in the program left at the date of the abstract submission deadline. But from the perspective of the organizers it is impossible to leave the program more open until one month before the GA. From the point of view of the budget it would be convenient to coincide the early registration and abstracts approval. Many submitters made registration after the abstract approval but it was after the end of "early registration". We had to solve many exceptions from the late registration.

7.3.4 Level of the Registration Fee

We do understand that 550 EUR, which corresponds to the actual expense a two weeks conference in Prague with 2500 participants, is rather high for many, particularly for the young, astronomers. In our opinion, the only way how to surpass this problem is to have at least one major sponsor, who would be able to cover 1/4 - 1/3 of the total expense. Unfortunately, our application to the government of the Czech Republic failed.

7.3.5 Registration Database

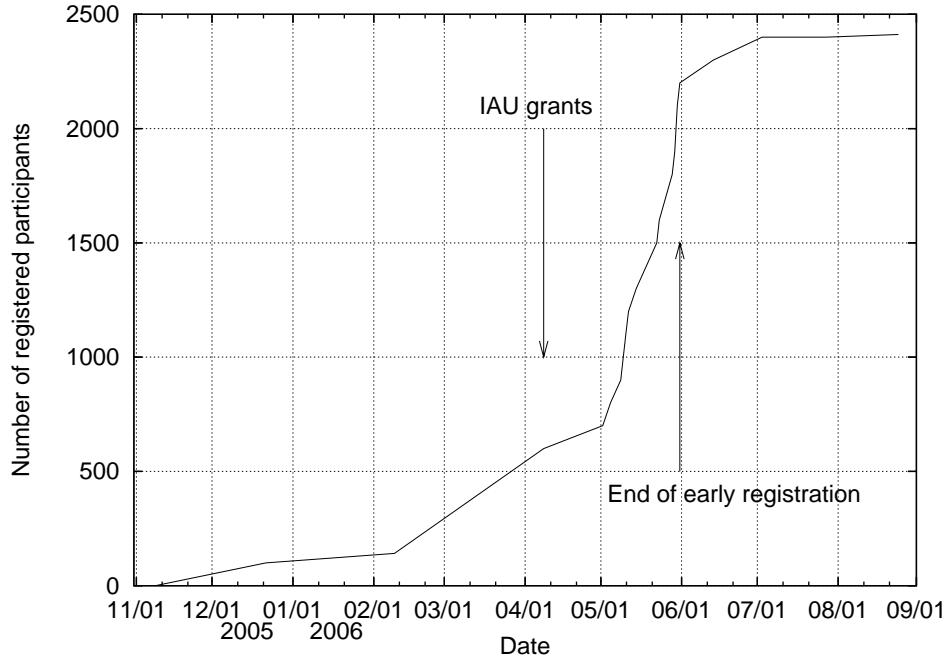
We do recommend to have one universal database with a complete information on registration, abstract submission, grant allocation, payments done. It could also include the information on accommodation and other events. The separation of the d-base with abstracts at Oxford Abstract resulted in an extremely uncomfortable situation. Another complication is with the potential participants, non-members of the IAU. The checking process is in some case very slow. We do recommend to abandon this regulation and open GA and its scientific events to all interested individuals. The only rule should be the scientific expertise. On the top of it, the organizers should have the access to the IAU membership d-base. The CBT offered the whole software solution for registration, abstracts, accommodation, accompanying program "in one" to IAU in December 2006. We recommend the IAU EC to consider this offer seriously since we think it would be a waste of work to beginn from scratch every GA IAU.

7.3.6 Rooms and equipment

It is necessary to make reservation of sufficient number of meeting rooms in time, at the beginning of the GA preparation. Many of request for organizing the 'fringe', small meetings appeared just before or even during the GA. The request for additional room for the very active and successful Press Center also appeared rather late from our point of view. The next GA organizer should allocate at least 3-4 rooms for the Press Center (e.g. Press Room, Press Interview Room and Press Conference Room). With respect to the planning it is always better to cancel rooms than to add more of them later.

It is necessary to consider the gradual improvement of the technology and connectivity of participants. The next GA should be equipped with the hi-speed internet and wireless connection. The level of the audio-visual equipment of the session rooms should be as high as possible. Also the video recording and web-streaming of the sessions met with the lively response. These items are rather expensive and it is necessary to take them into account in time.

8 Registration Statistics



8.1 Final Attendance Information

8.1.1 Overall information

Overall Attendance/Early	2412/2050
IAU Members	1113
Invited Participants	1299
Registered Guests > 11years old	172
Children (11 & under: free)	36
Students	540
Seniors	115
Teachers	14

8.1.2 Top 10 countries out of 72 in total

1. USA 547
2. Germany 188
3. Japan 169
4. France 150
5. United Kingdom 140
6. Italy 121
7. Czech Republic 119
8. Netherlands 89
9. Russian Federation 88
10. Spain 72

8.2 Acknowledgements

NOC needs to acknowledge an excellent cooperation with GS IAU Oddbjørn Engvold, which was both intensive and effective, in the final period on almost daily basis. An important collaboration with the IAU secretariat was also helpful, particularly we appreciate the advice and help by Monique Orine. NOC/LOC would like to express special thanks to brothers David & Michal Bursa and to the company MediaStream for substantial help with Internet implementation in the KCP. This report would not be complete without an acknowledgement of the important role played by CBT in the success of the GA, which was visible in all GA functions including registration, accommodation, negotiations with KCP, management of the exhibition, etc. Particularly the cooperation with CBT representatives Zuzana Tesařová, Zina Pecková and Monika Šenderová should be appreciated.

9 List of all 72 countries which the GA26 participants came from

Argentina	17
Armenia	2
Australia	60
Austria	20
Azerbaijan	1
Belgium	28
Brazil	43
Bulgaria	1
Canada	45
Chile	19
China Nanjing	60
China Taipei	14
Colombia	1
Croatia	3
Cuba	2
Czech Republic	118
Denmark	14
Egypt	2
Estonia	6
Finland	15
France	150
Germany	188
Greece	16
Honduras	1
Hungary	16
India	23
Indonesia	4
Iran	3
Iraq	1
Ireland	5
Israel	10
Italy	121
Japan	169
Kazakhstan	1
Kenya	1
Korea, RP (South Korea)	39
Latvia	4
Lithuania	2
Macedonia	2
Mexico	33
Mongolia	1
Morocco	2
Nepal	1
Netherlands	89
New Zealand	9
Norway	5
Peru	2
Philippines	1
Poland	26
Portugal	8
Romania	5
Russian Federation	88
Saudi Arabia	1
Serbia	18
Slovakia	6
Slovenia	2
South Africa	21
Spain	72
Sweden	22
Switzerland	25
Tajikistan	1
Thailand	3
Trinidad & Tobago	1
Turkey	7
Ukraine	31
United Kingdom	140
Uruguay	2
USA	547
Uzbekistan	3
Vatican City State	4
Venezuela	6
Viet Nam	2

10 List of Participants (those who passed the registration desk)

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