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INFORMATION BULLETIN No. 80

June 1997

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EDITORIAL

Among other information this IB contains a short version of the triennial report of the IAU Executive Committee for the years 1994-1997 and the proposed IAU budget for the years 1998-2000. This proposed budget has been sent in November 1996 to all IAU Adhering Organisations for discussion and approval at the XXIIIrd General Assembly in Kyoto.

As this is the last IB appearing before the Kyoto General Assembly, it also contains some additional information on the General Assembly.

Thanks to generous subventions by the European Space Agency, the European Southern Observatory and the US National Aeronautical and Space Administration the IAU was able to provide more than 280 travel grants for active participants and young astronomers planning to attend the Kyoto General Assembly and the attached Symposia. Additional 160 travel grants have been provided by the Local Organising Committee of the Kyoto Meeting. On behalf of the IAU I would like to express our sincere thanks to all these organisations for this highly valuable support of our work.

Finally, I am particularly pleased to report that thanks to the kind cooperation of the Symposia and Joint Discussion Scientific Organising Committees and the efficient work of the Kyoto Local Organising Committee and our Paris office the preparations for the Kyoto General Assembly continue progressing very smoothly.

I am looking forward to seeing you there in August.

Immo Appenzeller, General Secretary
May 16, 1997

- 1. GENERAL ASSEMBLIES
 - 1.1. THE XXIIIIRD GENERAL ASSEMBLY
KYOTO, JAPAN, AUGUST 18-30, 1997
 - 1.1.1. CALENDAR OF THE GENERAL ASSEMBLY,
ADMINISTRATIVE SESSIONS AND BUSINESS MEETINGS (PART I)

see IB 78

CALENDAR OF THE GENERAL ASSEMBLY,
ADMINISTRATIVE SESSIONS AND BUSINESS MEETINGS (PART II)

see IB 78

1.1.2. AGENDA OF THE OPENING AND CLOSING SESSIONS

Main Hall

GENERAL ASSEMBLY AGENDA

First Session: Wednesday afternoon, August 20, 1997

1. Formal Opening by the President
2. Appointment of Official Interpreters
3. Report of the Executive Committee 1994-1997
4. Report by the President on the Work of the Special Nominating Committee
5. Official Representatives of Adhering Organisations & Representatives to serve on the Nominating Committee
6. Names of Acting Presidents of Commissions
7. Appointment of the Finance Committee
8. Vote on the changes of the Statutes and Bye Laws
9. Resolutions submitted by Adhering Organisations
10. Resolutions submitted by Commissions or Associated Inter-Union Commissions

Second Session: Wednesday afternoon, August 27, 1997

11. Financial matters
Report of the Finance Committee
Vote on proposed budget for 1998-2000
12. Nomination of Commission Presidents & Vice-Presidents
13. Resolutions submitted by the Executive Committee
14. Resolutions proposed by the Resolution Committee
15. Resolutions proposed by the Commissions
16. Appointment of the Resolutions Committee 1997-2000
17. Appointment of the Special Nominating Committee 1997-2000 (SNC)
18. Application for IAU Membership
19. Nomination of New Members of the Union
20. IAU Representatives to other ICSU & International Institutions (1997-2000)
21. Place and Date of the XXIVth General Assembly
22. Election to the Union of a President, a President-elect, six Vice-Presidents, a General Secretary and an Assistant General Secretary

1.1.3. ADMINISTRATIVE SESSIONS

AGENDA OF THE MEETINGS OF THE

NATIONAL REPRESENTATIVES

Monday August 18 & Monday August 25, 1997, 9:00 - 10:00

Room K

1. Welcome
2. Membership -Adhering Organisations Represented
3. Voting Procedure
4. Duties of the National Representatives

- 5. Category of Adherence
- 6. Accounts 1994-1997
- 7. Residual Budget 1997
- 8. Unit of Contribution 1998-2000
- 9. Budget 1998-2000
- 10. Revision of Bye-Law 24
- 11. AOB

NOMINATING COMMITTEE AGENDA

Monday August 18 & Monday August 25, 1997, 10:00 - 11:00

Room K

- 1. Welcome
- 2. Membership - Adhering Organisations Represented
- 3. Duties of Nominating Committee
- 4. To receive and consider list of New Members proposed by Adhering Organisations
- 5. To receive and consider list of New Members proposed by Executive Committee, Presidents of Commission, etc.
- 6. To produce a finalised single list of New Members of the Union
- 7. Vote for four members of the Special Nominating Committee 1997-2000 from a list of 12 selected by Presidents of Divisions
- 8. AOB

FINANCE COMMITTEE AGENDA

Monday August 18 & Monday August 25, 1997, 11:00 - 12:00

Room K

- 1. Welcome
- 2. Membership -Adhering Organisations Represented
- 3. Duties of the Finance Committee:
 - a. to examine the Accounts 1994-1996
 - b. to examine the Residual Budget 1997
 - c. to consider the Unit of Contribution 1998-2000
 - d. to consider the Budget 1997-2000
- 4. Appointment of the Finance Sub-Committee
- 5. Category of Adherence by Adhering Organisations
- 6. Default on Dues
- 7. Report of the Finance Committee
- 8. AOB

1.1.4. SCIENTIFIC PROGRAMME: CALENDAR OF EVENTS

see IB 78

1.1.5. LAST ANNOUNCEMENT FROM THE LOC

ERRATUM ON ADVISORY BOARD

Kenji Akabane, Prof. Emeritus, belongs to University of Tokyo

ADDITIONAL MEMBERS OF LOCAL ORGANIZING COMMITTEE

(LOC)

Naoteru Gouda (Osaka University) Masaaki Sakagami (Kyoto University)
 Ryuko Hirata (Kyoto University) Hajime Sugai (Kyoto University)
 Taichi Kato (Kyoto University) Hatsue Toya-Suzuki (NAO)

(NAO: National Astronomical Observatory)

STATUS OF EARLY REGISTRATION

We have already received 1,150 registrations by 30 April 1997. The expected final number of registered attendants is about 1,600.

INFORMATION ON THE GENERAL ASSEMBLY

WWW

We provide the latest information by way of the World-Wide Web (WWW) which is frequently up-dated through the Astronomical Society of Japan. The URL of our page is:

<http://www.tenmon.or.jp/iau97/>

>From this page, you can also visit other servers providing useful information about Kyoto and Japan.

The additional items to be found on the WWW are:

- Banking Information
- Train Timetables
- Low Price Accommodations' Information
- Link to WWW of Hotels which you can book through JTB
- Photographic Images of Transportation

E-MAIL INFORMATION SERVICE

We provide the latest information also by E-mails. Information is itemized as General Information, Registration, Accommodation, Forms, LaTeX Template, etc. Each item is automatically sent back to anyone who sent an E-mail with a specific digit code in its Subject field to the following address:

iau97-info@tenmon.or.jp

No mail body is necessary. The detailed usage of this service is obtained by sending any (blank) E-mail with "help" in its Subject field. The released information is frequently up-dated.

As of April 9, 1997, the latest information can be obtained by sending messages whose Subject-field has one of the following request numbers:

Request Number/Contents Updated Date

Practical Information

11	Travel	Jan 13, 1997	
12	Registration	Feb 18, 1997	
13	Reservations for Hotel Accommodation, Social & Cultural Events, & Tours	Jan 13, 1997	
14	How to Reduce Your Expenses	Jan 13, 1997	
15	General Information on Facilities	Jan 13, 1997	
161	Registration Form (sent by e-mail)	Nov 25, 1996	
162	Registration Form (sent by postal mail or facsimile)	Jan 13, 1997	

17 Hotel/Tour Application Form Jan 13, 1997

Additional Information

181 Banking Information Apr 8, 1997
 182 Low Price Accommodations Apr 10, 1997

Scientific Presentations

21 Scientific Presentations Jan 13, 1997

Scientific Programme

32 Overview in IB78 Oct 13, 1996
 33 Individual Programmes: Symposia Oct 13, 1996
 34 Individual Programmes: Joint Discussions (1-8) Oct 13, 1996
 35 Individual Programmes: Joint Discussions (9-16) Feb 15, 1997
 36 Individual Programmes: Joint Discussions (17-24) Oct 13, 1996
 37 Individual Programmes: Special Sessions Oct 13, 1996

VISAS

As of May 1997, no visa is required for short-stay visitors to Japan from 2 more countries other than those listed in the Information Bulletin 79: Andorra (90 days), The former Yugoslav Republic of Macedonia (3 months).

Those from other countries and regions are requested to contact the nearest Consular Office or Embassy of Japan AS SOON AS POSSIBLE. The Local Organizing Committee will make any possible efforts to assist participants in obtaining visas when necessary. In some cases, documents prepared by the LOC will be required by the Consular Offices in visa applications. Note that the documents from the LOC only prove the purpose of your visit to Japan and do not guarantee any financial support.

If you need assistance, please contact the LOC by providing the following information:

1. full name and home address,
2. date and place of birth,
3. citizenship,
4. affiliation and office address,
5. date of issue and passport number of the visa applicant,
6. date and place (and preferably number) of visa application,
7. trip schedule,
8. facsimile number and/or E-mail address

HOW TO GET TO THE VENUE OF THE GENERAL ASSEMBLY: MINIMAL INFORMATION

The XXIIIrd General Assembly of the IAU is to be held in "Kyoto Kokusai Kaikan" [pronounce as Kyo-o-to Kokusa-i Ka-i-kan in Japanese], i.e. the Kyoto International Conference Hall (KICH) whose address is Takaraga-ike, Sakyo-ku, Kyoto. The easiest ways to reach this venue from Kyoto (Kansai) and Tokyo (Narita) international airports are indicated below. Please check Information Bulletin 79 for details.

Kansai International Airport (KIX), close to Kyoto

From KIX JR Station to Kyoto Station

We strongly recommend you to take the limited express "Haruka" train for Kyoto. Seats must be booked when buying the ticket from the Kansai-kuko [Kansa-i-ku-u-ko-o] station. The fare, including the supplemental charge, is 3690 Yen. It takes 75 minutes from the JR (NOT NANKAI) station in Kansai International Airport to Kyoto station. As of May 1997, the service hours

of "Haruka" trains from/to the airport are as follows:

Express "Haruka" trains

From	To	Service Hours	Typical Interval
KIX	Kyoto Station	6:29 - 22:18	30 min (Monday-Friday)
KIX	Kyoto Station	6:41 - 22:18	30 min (Sunday, Saturday)
Kyoto Station	KIX	5:31 - 20:16	30 min (any week day)

Subway from Kyoto station to Kokusai-kaikan [Koku-sa-i-ka-i-kan] station

Take Kyoto subway which is the one and only subway line in Kyoto at Kyoto station to its Kokusai-kaikan station terminus ("Kokusai-kaikan" meaning "International conference hall"). The station is just in front of the Kyoto International Conference Hall. The service hours are 5:30 to 23:45 and the frequency of the subway trains is four to seven minutes. The fare between Kyoto station and Kokusai-kaikan station is about 260 Yen.

New Tokyo International Airport: Narita (NRT), close to Tokyo

From NRT (JR) Station to Tokyo Station

From Narita-kuko [Narita-ku-u-ko-o] station (JR) in New Tokyo International Airport, we strongly recommend you to take any of the "Narita express" trains to Shinjuku, Yokohama, Ikebukuro, or Ofuna (all these trains are through Tokyo station). Seats must be booked when buying the ticket at any JR (NOT KEISEI) desk in Narita-kuko station. The fare from NRT to Tokyo station, including the supplemental charge, is 3140 Yen and it takes 60 minutes to Tokyo station. As of May 1997, the service hours of "Narita express" trains from/to the airport are as follows:

"Narita Express" trains

From	To	Service Hours	Typical Interval
NRT	Tokyo station	7:43 - 21:42	30 or 60 min
Tokyo station	NRT	6:30 - 20:03	30 or 60 min

Train from Tokyo Station to Kyoto Station

"Shinkansen", i.e. high speed trains, also called bullets, are available there. The fares of the "Nozomi" (fastest trains of Shinkansen) or "Hikari" (slightly slower and cheaper than "Nozomi") from Tokyo to Kyoto, including the supplemental charges, are 14,390 Yen and 13,420 Yen, respectively for a journey of 140 or 180 minutes. Seats must be booked when buying the ticket at any JR stations, say Tokyo station, and Narita-kuko JR station at NRT before getting on the "Nozomi", whereas booking is not obligatory although recommended for "Hikari". As of May 1997, the service hours of "Shinkansen" between Tokyo and Kyoto are as follows:

"Shinkansen" ("Nozomi" or "Hikari" trains)

From	To	Service Hours	Typical Frequency
Tokyo Station	Kyoto Station	6:07 - 21:18	8 trains an hour
Kyoto Station	Tokyo Station	6:17 - 21:34	8 trains an hour

Subway from Kyoto station to Kokusai-kaikan [Koku-sa-i-ka-i-kan] station

See page 13.

By sea

Some regular ship services are available to Japan from Russia, China, and Korea.

Port (Country) Port in Japan

Vladivostok (Russia)	Niigata, Fushiki
Shanghai (China)	Osaka, Kobe, Nagasaki
Tsingtao (China)	Shimonoseki
Tientsin (China)	Kobe
Pusan (Korea)	Hakata, Shimonoseki

Please check Information Bulletin 79 p. [27], Figure 2: Connection map to/from Seaports.

UPDATED INFORMATION

Consumer's tax

Since April 1997 the consumer's tax in Japan (Sho-o-hize-i) is 5 % instead of 3 %.

Some fare and fee may be updated, compared to those shown in the Information Bulletin 79.

Social & Cultural Events

Welcome Brass Concert [Wednesday August 20, evening] Free of charge

The brass concert, previously proposed, will be replaced by other amusement, although the time allocation is the same.

LOW PRICE ACCOMMODATIONS (errata about contact address)

Buddhist temple lodging: Shukubo-o

For Shukubo-o please contact them directly. As we know the following three Shukubo-o's will accept.

Name	Facsimile	Postal Address
Gesshin-in	81 75 561 8088	Yasaka-toriimae, Simogawara-dori, Higashiyama-ku, Kyoto
Kosho-kaikan	81 75 343 2124	Horikawa-dori-shichijo-nishikitakado, Shimogyo-ku, Kyoto
Myorenji Temple	81 75 451 3597	Teranouchi, Omiya-higashi-iru, Kamigyo-ku, Kyoto

SYSTEMATIC NAME OF PLACE IN KYOTO CITY
COORDINATE IN KYOTO

The location names of Kyoto city are unique and systematic. Most of them are named after a sort of Cartesian coordinates. The crossing point of the street A and B is called A-B or B-A. For example the crossing point of Shijo-Dori and Karasuma-Dori is Shijo-Karasuma (Dori means street in Japanese). By this systematic naming you can easily find where you are or where your destination is.

However, please also note that some crossing points are not called following this rule, such as Hyakumanben and Enmachi, etc.

1.2. XXIVTH GENERAL ASSEMBLY

See IB 79 p. 2

2. EXECUTIVE COMMITTEE

2.1. DATES OF THE 69TH AND 70TH MEETINGS OF THE IAU EXECUTIVE COMMITTEE

The 69th and 70th Meetings of the IAU Executive Committee will take place in connection with the XXIIIrd IAU General Assembly in August 1997 in Kyoto, Japan.

2.2. REPORT OF THE EXECUTIVE COMMITTEE 1994-1997

The present report covers the period between the conclusion of the XXIInd General Assembly and the XXIIIrd General Assembly.

Composition of the Executive Committee 1994-1997

L.	Woltjer	President
R.P.	Kraft	President-Elect
I.	Appenzeller	General Secretary
J.	Andersen	Assistant General Secretary
C.A.	Anguita	Vice-President
B.	Hidayat	Vice-President
D.S.	Mathewson	Vice-President
F.	Pacini	Vice-President
J.I.	Smak	Vice-President
V.L.	Trimble	Vice-President
A.A.	Boyarchuk	Advisor
J.	Bergeron	Advisor

Executive Committee Meetings

65th Meeting, August 14, 15, 16 & 22, 1994, The Hague, The Netherlands
 66th Meeting, August 25, 1994, The Hague, The Netherlands
 67th Meeting, August 18 - 21, 1995, Canberra, Australia
 68th Meeting, June 23 - 25, 1996, Baltimore, USA

Officers Meetings

February 25 & 26, 1995, Paris, France
 February 25, 1996, Paris, France
 February 24, 1997, Paris, France

The activities of the Executive Committee were recorded in the minutes of the Executive Committee meetings and summaries of these minutes were published in the IAU Information Bulletin (EC 65: IB 74, p. 25; EC 66: IB 74, p. 25; EC 67: IB 76, p. 5 & EC 68: IB 79, p. 3).

The main issues addressed and decisions were:

- The implementation of the new "Division" structure of the IAU following the proposal adopted by the XXIInd General Assembly in The Hague;
- Adaptation of the IAU Statutes, By-Laws and Working Rules to the new Division structure;
- Modifications of the Statutes and By-Laws to allow the individual membership of astronomers not represented by a national adhering organisation; Introduction of the Teaching of Astronomy Development (TAD) Programme;
- Establishment of a new (EC) Working Group for Future Large Scale Facilities;
- Conclusion of a new IAU Publishing Contract for the years 1998-2003;
- The use of the World Wide Web as a new major means of communication within the Union.

IAU Secretariat:

The secretariat continued to function at its headquarters in Paris (98 bis, Boulevard Arago, F-75014 Paris, France) according to an agreement with the French "Institut National des Sciences de l'Univers-CNRS" reached in November 1989.

There has been no change in the IAU staff: Mrs. Monique Léger-Orine is the IAU Administrative Assistant, as of September 1, 1987, and Ms. Julie Saucedo is the IAU Secretary, as of July 9, 1990.

Adhering Countries:

Amongst the states of the former Soviet Union, the Academies of Sciences of Azerbaijan, Georgia and Latvia have become national members of the IAU.

Of the former State of Yugoslavia, Croatia joined the Union.

Since Cuba and the DPR Korea had not paid their dues for over five years, the adherence of these countries to the IAU as full members terminated according to Article 7 of the IAU Statutes.

Adhering Countries: summary as of April 30, 1997:

Number of Adhering National Organisations	60
full statute	56
associate statute	4

Individual Membership and Consultants:

674 new individual members were admitted to the Union at the XXIInd General Assembly.

Number of individual members as of May 12, 1997	7497
Number of consultants as of May 12, 1994	219

Commissions of the IAU

Commission 44 (Astronomy from Space) and 48 (High Energy Astrophysics) merged to form the new Commission 44 (Space and High Energy Astrophysics)

Commission 20: Positions & Motions of Minor Planets, Comets & Satellites

Minor Planet Circulars were issued, under the direction of B.G. Marsden in 1994, 1995 and 1996, to a total of 1847, 1954 & 1919 pages respectively and in 1991, 1992 and 1993, 333, 396 & 383 minor planets were numbered respectively.

Commission 38: Exchange of Astronomers

The aim of this programme is to provide support to astronomers from developing countries who spend periods over three months at a foreign host institution to pursue their training and formation in astronomy and their scientific collaboration with other astronomers. Priority is given to young astronomers. During the 1994 - 1997 triennium, 31 grants were awarded to this programme.

Commission 46: Teaching of Astronomy

International Schools for Young Astronomers (ISYAs)

Each school is planned for three weeks. It consists of both lectures by national and international senior astronomers, with usually an emphasis on a broad astronomical theme, and introduction to observational technics, at an active observatory when possible, and to data reduction and analysis. Attending students and young astronomers are both from the host country and nearby countries.

The following ISYAs took place during the triennium:

21st ISYA Cairo University and Kottamia Observatory, Egypt,
September 18 - October 8, 1994

22nd ISYA Belo Horizonte, Brazil, 9 - 29 July, 1995

23rd ISYA Zanjan, Iran, 4 - 27 July, 1997
Scientific Meetings held

During the triennium, 20 Symposia, 18 Colloquia and 2 Regional Astronomy Meetings (VIIth Latin-American RAM and VIth Asian-Pacific RAM) were held. The Union also co-sponsored 9 meetings with other international Unions and ICSU Committees.

The XXIIInd General Assembly was held in The Hague, The Netherlands, August 15 - 27, 1994. IAU Transactions XXIIB (1994) contain the Report of the Proceedings of the General Assembly of the Union, the 6 Resolutions adopted by the General Assembly and the Report of the business and scientific sessions of the forty IAU Commissions.

Publications

IAU INFORMATION BULLETIN: seven issues N. 74-80

IAU TRANSACTIONS XXIIB - Proceedings of the
Twenty-second General Assembly, The Hague 1994,
Ed. I. Appenzeller

IAU TRANSACTIONS XXIIIA (Reports 1996) - Reports on Astronomy,
Ed. I. Appenzeller

HIGHLIGHTS OF ASTRONOMY 10, 1995
Ed. I. Appenzeller

MEMBERSHIP LIST 1994/1997

Fourteen Symposia:

- 160 ASTEROIDS, COMETS, METEORS 1993
 Eds. A. Milani, M. di Martino & A. Cellino
- 161 ASTRONOMY FROM WIDE-FIELD IMAGING
 Eds. H.T. MacGillivray, E.B. Thomson, B.M. Lasker, I.N. Reid, D.F. Malin,
 R.M. West & H. Lorenz
- 162 PULSATION, ROTATION AND MASS LOSS IN EARLY-TYPE STARS
 Eds. L.A. Balona, H.F. Henrichs & J.M. Le Contel
- 163 WOLF-RAYET STARS: BINARIES, COLLIDING WINDS, EVOLUTION
 Eds. K.A. van der Hucht & P.M. Williams

- 164 STELLAR POPULATIONS
Eds. P.C. van der Kruit & G. Gilmore
- 165 COMPACT STARS IN BINARIES
Eds. J. van Paradijs, E.P.J. van den Heuvel & E. Kuulkers
- 166 ASTRONOMICAL AND ASTROPHYSICAL OBJECTIVES OF SUB-MILLIARCSECOND OPTICAL
ASTROMETRY
Eds. E. Hog & P.K. Seidelmann
- 167 NEW DEVELOPMENTS IN ARRAY TECHNOLOGY AND APPLICATIONS
Eds. A.G. Davis Philip, K.A. Janes & A.R. Upgren
- 168 EXAMINING THE BIG BANG AND DIFFUSE BACKGROUND RADIATIONS
Eds. M. Kafatos & Y. Kondo
- 169 UNSOLVED PROBLEMS OF THE MILKY WAY
Eds. L. Blitz & P. Teuben
- 170 CO: TWENTY-FIVE YEARS OF MILLIMETRE-WAVE SPECTROSCOPY
Eds. W.B. Latter, S.J.E. Radford, P.R. Jewell, J.G. Mangum & J. Bally
- 171 NEW LIGHT ON GALAXY EVOLUTION
Eds. R. Bender & R.L. Davies
- 172 DYNAMICS, EPHEMERIDES AND ASTROMETRY OF THE SOLAR SYSTEM
Eds. S. Ferraz-Mello & J.-E. Arlot
- 173 ASTROPHYSICAL APPLICATIONS OF GRAVITATIONAL LENSING
Eds. C.S. Kochanek & J.N. Hewitt
- 174 DYNAMICAL EVOLUTION OF STAR CLUSTERS
- CONFRONTATION OF THEORY AND OBSERVATIONS
Eds. P. Hut & J. Makino
- 175 EXTRAGALACTIC RADIO SOURCES
Eds. R. Ekers, C. Fanti & L. Padrielli
- 176 STELLAR SURFACE STRUCTURE
Eds. K.G. Strassmeier & J.L. Linsky
- 178 MOLECULES IN ASTROPHYSICS: PROBES AND PROCESSES
Ed. E.F. van Dishoeck

Relations to other International Organisations

The IAU was represented by the Assistant General Secretary at the following meetings of ICSU: Meetings of the General Committee, at Rabat, Morocco, October 13-15, 1994 and at Chiang Mai, Thailand, October 7-9, 1995 and the XXVth General Assembly, held at Washington, DC, September, 1996.

The IAU was represented by the General Secretary, at the XXXIst Plenary Meeting of COSPAR and the ICSU Inter-Union Committee for Space Research, held at Birmingham, UK, July 14 - 21, 1996.

2.3. IAU ACCOUNTS 1994-1996

TRIENNIUM 1994-1996 STATEMENT OF INCOME (CHF)

Paris, January 26, 1997

	1991-1993	1994	1995	1996	1994-1996
ADHERING ORGANIZATIONS	1728101	619862	647150	562835	1829847
SPECIAL CONTRIBUTIONS	176300	184166	2122	22451	208739
ICSU/UNESCO					
ICSU: General	26091	11880		15480	27360
UNESCO: General	67926	17424		13416	30480
ICSU/AEI	26221				
UNESCO/AEI	30773		5800		5800

COSPAR/AEI	720					
Total	151731	29304	5800	28896		64000
PUBLICATIONS: ROYALTIES	193545	64114	62803	63750		190667
BANK INTERESTS						
Current accounts	2511	109	197	43		349
Deposit accounts	117283	17279	23473	6957		47709
Saving accounts	1109					
Money market	35305	20706	11327	11660		43693
Total	156210	38094	34997	18660		91751
OTHER INCOME						
Refund grants	2207	6467				6467
Refunds SPM/CQM	7496					
Refunds bank	508					
Refund Union representation	4415					
Gain on exchange 1 Jan current year	9038			35404		35404
Gain on internal transfers	4890	1503	2	6310		7815
Total	28557	7970	2	41714		49686
TOTAL INCOME	2434443	943510	752874	738306		2434690

TRIENNIUM 1994-1996 STATEMENT OF EXPENDITURE (CHF)

Paris, January 26, 1997

	1991-1993	1994	1995	1996	1994-1996
SCIENTIFIC ACTIVITIES					
General Assembly					
Grants (XXI)	132685				
Grants (XXII)	31040	402321			402321
Commission Presidents	48687	22997			22997
Staff	19423	2688			2688
Operation (XXI)	17218				
Operation (XXII)	9293	15448	163		15611
Operation (XXIII)		579	2124		2703
Operation (XXIV)			2533		2533
Executive Committee	81848	79101			79101
Meetings					
Symposia/Colloquia	409398	85000	225994	256193	567187
Co-sponsored Meetings	39657	12923	2727	8000	23650
Regional Meetings	49156		24123	25000	49123
AEI IAU/UNESCO meeting	60420				
Other meetings		15036	142	3000	18178
Research projects					
ISYA (46)	65792	31138	25183		56321
VLP/TAD (46)	6094	1839		21418	23257
EC WGs	18930	1207	10517	14242	25966
Exchange of Astronomers (38)	39513	17456	15752	17481	50689
Archives			2301	15355	17656
Others	9636				

Commission Activities					
Telegram Bureau (06)	17727	3270		4000	7270
Minor Planet Center (20)	7300	3372			3372
Meteor Data Center (22)	6425	1100	1000	1000	3100
Variable Star Catalogue (27)	7300	3728			3728
Astronomy Teaching (46)	10593	2047			2047
Commission WGs (20)	11124		5494	831	6325
Others	1878				
Representation to other Unions					
	10536	7341	8287	9119	24747
Total	1111681	708591	326340	375639	1410570

TRIENNIUM 1994-1996 (ctd)	STATEMENT OF EXPENDITURE (CHF)				
	1991-1993	1994	1995	1996	1994-1996
DUES TO UNIONS / ORGANIZATIONS					
ICSU	67706	11290	10543	12144	33977
IERS/FAGS	19915	7000	7000	7000	21000
IUCAF	23389	7500	7500	7500	23500
CTS	1768				
Total	112778	25790	25043	26644	77477
EXECUTIVE COMMITTEE					
Executive committee meetings	79525	507	35137	37319	72963
Officers meetings	12698	5222	2215	4430	11867
SNC expenditure	8104				
General Secretary expenditure	12969	9046	19044	18060	46150
Representation	5167	971	1851		2822
President expenses	1792				
Total	120258	15746	58247	59809	133802
PUBLICATIONS					
Information Bulletin	167850	23319	21118	41156	85593
Free Distribution	20909	27854	22733	34561	85148
IAU History	6662	3666			3666
Total	195421	54839	43851	75717	174407
ADMINISTRATION/SECRETARIAT					
Salaries					
Salaries & Charges	420062	145841	133981	161627	441449
Training courses	3368	2997	1693	1569	6259
General office expenses					
Leasing telex	4021				
Mail	19976	12510	4689	6892	24091
Telephone	31771	14814	12575	14236	41625
Telex	9040				
Office supplies	37207	10467	7557	11731	29755
Rental (INSU/IAP)	5817	5180	10328	4500	20008
Furniture	23051	4347	12513	274	17134
Computers	9920	18387	13760	18641	50788

TRIENNIUM 1994-1996 (ctd)	STATEMENT OF EXPENDITURE (CHF)				
	1991-1993	1994	1995	1996	1994-1996
Audit fee	140806	2332	741	1964	5037
Bank					
Loss on exchange 1					
January of the year	864	30858	42478		73336
Loss on internal					
transfers	30612	1003	1293		2296
Charges on internal					
transfers	735	529	486	87	1102
Bank charges	9044	2383	2130	2724	7237
Commissions on deposits	10375	2675	3293	4259	10227
Total	803477	254323	247517	228504	730344
ECLIPSE USSR (special					
account)	33378				
TOTAL EXPENDITURE	2246347	1059290	700998	766313	2526601
Excess of Income over					
Expenditure	188095	-115780	51877	-28007	-91910

2.4. PROPOSED IAU BUDGET 1997-2000

Paris, October 29, 1996 1998-2000 PROPOSED BUDGET (CHF)

Notes in connection with the 1998-2000 proposed budget:

An allowance for inflation of 2% for 1998, 2.5% for 1999 and 3% for 2000 has been made

The royalties from IAU publications have been reduced in order to allow lower selling prices for the IAU books.

	INCOME			
	BUDGET (*)		PROPOSED BUDGET	
	1997	1998	1999	2000
Unit of contribution	2820	2880	2950	3040
Number of units of contribution	254	254	254	254
ADHERING ORGANIZATIONS	716280	731520	749300	772160
SPECIAL CONTRIBUTIONS				
ICSU/UNESCO	40000	40000	40000	40000
PUBLICATIONS: ROYALTIES	68000	30000	30000	30000
BANK INTEREST	25000	15000	15000	15000
OTHER INCOME				
TOTAL INCOME	849280	816520	834300	857160

(*) 1997 budget as approved at the XXIInd General Assembly

Paris, October 29, 1996 1998-2000 PROPOSED BUDGET (CHF)

EXPENDITURE				
	BUDGET (*)		PROPOSED BUDGET	
	1997	1998	1999	2000
SCIENTIFIC ACTIVITIES				
General Assembly:				
Grants	167000			180000
Commission Presidents	40000			40000
Staff	18000			15000
Operation	30000	5000	5000	30000
Executive Committee	80000			65000
Meetings:				
Symposia/Colloquia	220000	250000	256000	264000
Regional Meetings		25000	25000	
AEI IAU/UNESCO meeting				
Research Projects:				
ISYA (46)		30000	30000	
TAD (46)	15000	30000	30000	30000
EC WGs	18000	18000	18000	18000
Exchange of Astromers (38)	30000	25000	25000	25000
Others				
Commission Activities:				
Telegram Bureau (06)	4000	4000	4000	4000
Minor Planet Center (20)				
Meteor Data Center (22)		1100	1100	1100
Variable Star Catalog (27)				
Astronomy Teaching (46)	5000	5000	5000	5000
Commission WGs	18000	15000	15000	15000
Others				
Delegates to other Union	10000	10000	10000	10000
Total	655000	418100	424100	702100
DUES TO UNIONS /ORGANIZATIONS				
ICSU	18000	16000	16500	17000
IERS/FAGS	7500	7500	7500	7500
IUCAF	7500	7500	7500	7500
CTS	600			
Total	33600	31000	31500	32000

(*) 1997 budget as approved at the XXIInd General Assembly

Paris, October 29, 1996 1998-2000 PROPOSED BUDGET (CHF) (Ctd)

EXPENDITURE				
	BUDGET (*)		PROPOSED BUDGET	
	1997	1998	1999	2000
EXECUTIVE COMMITTEE				

Executive cttee meetings		35000	36000	
Officers meetings	5400	5000	5100	5200
SNC expenditure				
General Secretary expenditure	23400	26000	26500	27500
President expenses	7000	3500	3500	3500
Assist General Secretary expenses	3000	3000	3000	3000
Total	38800	72500	74100	39200
PUBLICATIONS				
Information Bulletin	44000	32000	33000	34000
Free Distribution	18500	19000	19000	19000
Total	62500	51000	52000	53000
ADMINISTRATION /SECRETARIAT				
Salaries				
Salaries & Charges	162800	155000	159000	164000
Training courses	4500	4500	4500	4500
General office expenses:	72000	70000	70000	72000
Mail, Telephone, Office supplies, Rental (INSU/IAP), Furniture, Computers				
Audit fee	3200	2000	2000	2000
Bank:				
Loss on exchange				
Loss on internal transfers				
Bank charges	2500	3000	3000	4000
Commissions on deposits	4500	4000	4000	4500
Total	249500	238500	242500	251000
TOTAL EXPENDITURE	1039400	811100	824200	1077300
Excess/Loss of Income over Expenditure	-190120	5420	10100	-220140

(*) 1997 budget as approved at the XXIIInd General Assembly

3. SCIENTIFIC & EDUCATIONAL ACTIVITIES

3.1. COMMISSION 38: EXCHANGE OF ASTRONOMERS

IAU TRAVEL GRANTS: GUIDELINES

Within the limitations imposed by the budget of the Commission as approved by the Executive Committee of the International Astronomical Union, funds are available to Commission 38 toward grants to qualified individuals to enable them to visit institutions abroad. It is intended, in particular, that the visitors should have ample time and opportunity to interact with the intellectual life of the host institution so that maximum benefit is derived by both sides. It is a specific objective of the programme that astronomy in the home country be enriched after the applicant returns.

1. Candidates may be faculty/staff members, post-doctoral fellows, or graduate students at any recognised educational/research institution or observatory. All candidates must have an excellent record of research and

must have made permanent and professional commitments to astronomy. The programme is designed to support both the work of young astronomers and established astronomers whose visits may benefit the country or institution visited. It is emphasised that all recipients should return to their home institutions or home countries upon the completion of their visits.

2. All visits must normally consist of a stay of at least 3 months at a single host institution. In special cases, shorter visits can be considered; stopover at other institutions en route may be permitted.

3. All visits must be formally agreed to by the Directors of the home and host institutions involved. Such endorsements must confirm that the proposed plan of study is a reasonable one and will be of benefit to astronomy.

4. All applicants must give details of funds currently available to her/him to finance her/his proposed visit including supporting documents. In particular, s/he must state what other applications s/he has submitted in efforts to obtain support from other sources and the status of such applications. In the event that an applicant receives funds, which may be used, in whole or in part, for the same proposed purpose from another source, s/he is required to revise her/his application or make a refund to the IAU. If dependants are to accompany the applicant, details must be given.

5. The amount of the grant will be governed by the cost of one return economy air fare and limited to the least expensive fare (such as PEX, APEX, etc.) between home and host institutions and normally is to be used by the applicant for such travel. With prior approval, the funds can instead be used wholly or in part for subsistence costs during the visit.

Some grants may be awarded on the basis of a one-way fare. An example is the case where highly qualified graduate students apply for funds to go abroad to begin graduate studies at an institution where they have been formally accepted.

6. Grants to attend symposia, summer schools, conferences, society meetings, etc. are outside the scope of the programme.

Grants will not normally be made for the sole purpose of obtaining observational data.

An individual should normally not expect to receive an IAU award for a second visit.

7. Each recipient is required to submit a brief report to the President of Commission 38 after her/his return from the visit. Acknowledgement of support from the Exchange of Astronomers Programme of the IAU should be made in any published paper resulting from the visit.

Application Procedure

1. An individual who wishes to apply for a grant under the IAU Exchange of Astronomers Programme should read the rules carefully to ensure that the circumstances of her/his case conform to the conditions under which IAU grants can be made. S/he should then proceed by formally submitting her/his request for a grant in the form of a letter to the President of Commission 38 (see below). Each candidate must submit a curriculum vitae showing that s/he is professionally qualified, and must submit a viable plan of scholarly activity to be carried out during the visit.

The information supplied in those documents should be complete and detailed as it will be used to judge whether the proposal is in conformity with the aims of the programme, whether the minimum initial requirements are being met, and whether the guidelines will permit a favourable decision. Any special circumstances must be carefully set forth.

2. It is the applicant's responsibility to arrange for the two confidential letters of endorsement from senior officials of the home and host institutions. These are to be sent without delay directly to the President

of Commission 38. The letters from both institutions should confirm that the applicant's proposed visit has the knowledge and support of the directors or senior academic/research officers of the institutions involved. Further they should state whether the applicant will be returning to a position at the home institution at the conclusion of the visit. Finally, they should confirm to the President of Commission 38 that the senior officials themselves have made every effort to obtain the necessary travel funds from their own institutions and from other resources within the respective countries.

The applicant must state who is responsible for her/his subsistence during the prolonged visit at the host institute, i.e. subsistence paid by the home or by the host institute, by a grant or fellowship or by any other means. Copies of the relevant documents should be submitted with application. In addition the applicant should provide information on the lowest available travel fare required.

3. As noted above, care should be taken to make the application as complete as possible and to include detailed statements rather than generalities. Material should be typed and single spaced. The application will be considered as quickly as possible, but it should be recognised that information and opinions must be exchanged among the President, Vice-Presidents, and/or other Members of the Organising Committee of Commission 38.

4. In summary, the application should include:

- i. plan of scientific activity,
- ii. curriculum vitae,
- iii. letters of support from home and host institutions,
- iv. information on responsibility for subsistence at the host institution,
- v. information on lowest available travel fare.

and should be submitted in time for the Officers of the Commission to consult by post.

5. All correspondence, including the endorsements referred to above, should be directed to the President of Commission 38, International Astronomical Union, with copy to the Vice-President. For the period August 1994-July 1997, the addresses are:

President	Vice-President
Prof. H.E. Jorgensen NBIfAFG Juliane Maries Vej 30 DK 2100 Copenhagen O Denmark USA	Dr. Morton S. Roberts NRAO Edgemont Road Charlottesville VA 22903

Fax: 45 35 32 3989 1 804 296 0278

3.2. COMMISSION 46: TEACHING OF ASTRONOMY

IAU COMMISSION 46 NEWSLETTER

This is a reminder that the electronic newsletter of Commission 46 is published approximately four times a year, and can be obtained by sending a message to Dr. Armando Arellano Ferro (armando@cuevano.ugto.mx). Current and past issues can also be found on our WWW site kindly maintained by Dr. Andrew Norton (<http://physics.open.ac.uk/IAU46/>)

About 60 addresses on our current e-mailing list constantly "bounce", presumably because they are inactive, or have changed. If you are wondering why you no longer receive the newsletter, perhaps this is why. Please

update your address with Dr. Arellano Ferro.

John R. Percy, President

3.2.1. 23rd IAU International School for Young Astronomers (ISYA)

Zanjan, Iran, July 4 - 24, 1997

See IB 79 p.21

3.2.2. Teaching for Astronomy Development (TAD)

See IB 79 p. 22

3.3. FUTURE IAU SCIENTIFIC MEETINGS

3.3.1. Deadline

Proposals for IAU Symposia, Colloquia, Regional Meetings, and co-sponsored meetings planned for 1999 should reach the Assistant General Secretary(see inside cover page)

no later than May 15, 1998

in order to be considered at the 1998 Executive Committee meeting. Proposals should be complete, with all supporting documents, at that time (cf. the Rules for IAU Scientific Meetings).

3.3.2. Future IAU Symposia

Symposium 183 COSMOLOGICAL PARAMETERS AND THE EVOLUTION OF THE UNIVERSE
August 18 - 22, 1997, Kyoto, Japan

See IB 78, p. 9.

Symposium 184 THE CENTRAL REGIONS OF THE GALAXY AND GALAXIES
August 18 - 22, 1997, Kyoto, Japan

See IB 78, p. 11.

Symposium 185 NEW EYES TO SEE INSIDE THE SUN AND STARS: PUSHING THE LIMITS OF HELIO- AND ASTEROSEISMOLOGY WITH NEW OBSERVATIONS FROM THE GROUND AND FROM SPACE
August 18 - 22, 1997, Kyoto, Japan

See IB 78, p. 13.

Symposium 186 GALAXY INTERACTIONS AT HIGH AND LOW REDSHIFT
August 26 - 30, 1997, Kyoto, Japan

See IB 78, p. 15.

Symposium 187 COSMIC CHEMICAL EVOLUTION
August 26 - 30, 1997, Kyoto, Japan

See IB 78, p. 18.

Symposium 188 THE HOT UNIVERSE
August 26 - 30, 1997, Kyoto, Japan

See IB 78, p. 20.

NB: For latest news on the programmes of the Symposia at the Kyoto GA, see the GA WWW pages:

<http://www.tenmon.or.jp/iau97/>

5.3.3. Future IAU Colloquia

None before 1998

4. OTHER SCIENTIFIC MEETINGS OF INTEREST TO IAU MEMBERS

ISO'S VIEW ON STELLAR EVOLUTION

July 1 - 4, 1997, Noordwijkerhout, The Netherlands.

Contact address: Dr. Rens Waters, Astronomical Institute, Univ. of Amsterdam, Kruislaan, NL - 1098 SJ Amsterdam, The Netherlands.

Tel: 31 20 525 7468

Fax: 31 20 525 7484

E-mail: isostar@astro.uva.nl

WWW: <http://www.astro.uva.nl/isostar>

STRUCTURE AND EVOLUTION OF THE INTERGALACTIC MEDIUM FROM QSO ABSORPTION LINE SYSTEMS

July 1 - 5, 1997, Paris, France.

Contact address: Dr. Patrick Petitjean, Institut d'Astrophysique, 98bis Blvd. Arago, F - 75014 Paris, France.

Tel: 33 1 4432 8150

Fax: 33 1 4432 8001

E-mail: petitjean@iap.fr

WWW: <http://www.iap.fr/coll/>

JOINT EUROPEAN AND NATIONAL ASTRONOMY MEETING

JULY 2 - 5, 1997, Thessaloniki, Greece.

Contact address: Dr. M.E. Contadakis, Aristotle University of Thessaloniki, Department of Geodesy and Surveying, GR - 540 06 Thessaloniki, Greece.

Tel: 30 31 996122

Fax: 30 31 996408

E-mail: elaset@astro.auth.gr

WWW: <http://www.astro.auth.gr/elaset/jenam97>

THE STELLAR INITIAL MASS FUNCTION

July 14 - 18, 1997, Cambridge, UK.

Contact address: Ms. Debbie Howell, Inst. of Astronomy, Madingley Road, Cambridge, CB3 0HA, UK.

Tel: 44 1223 337 548

Fax: 44 1223 337 523

E-mail: debbie@ast.cam.ac.uk

WWW: http://www.ast.cam.ac.uk/IoA/hx38_intro.html

COOL STARS, STELLAR SYSTEMS, AND THE SUN

July 15 - 19, 1997, Cambridge, MA, USA.

Contact address: Dr. Andrea K. Dupree, Center for Astrophysics, MS 15, 60 Garden Street, Cambridge, MA 02138, USA.

Tel: 1 617 495 7489

Fax: 1 617 495 7049

E-mail: cs10@cfa.harvard.edu
WWW: <http://cfa-www.harvard.edu/CS10/>

25TH INTERNATIONAL COSMIC RAY CONFERENCE

July 27 - August 8, 1997, Durban, South Africa.
Contact address: ICRC, Space Research Unit, Dept. of Physics, Poschefstroom Univ. for CHE, ZA - 2520 Poschefstroom, South Africa.
Tel: 27 148 299 2423
E-mail: icrc97@physics.puk.ac.za
WWW: <http://www.puk.ac.za/fskdocs/icrc97/>

GLOBAL CHANGE AND HISTORY OF GEOPHYSICS AND RELATED DISCIPLINES

August 4 - 14, 1997, Uppsala, Sweden.
Contact address: Wilfried Schröder, Geophysical Station, Hechelstrasse 8, D - 28777 Bremen Rönnebeck, Germany.

ITP CONFERENCE ON SUPERNOVA EXPLOSIONS: THEIR CAUSES AND CONSEQUENCES

August 5 - 9, 1997, Santa Barbara, CA, USA.
Contact address: Dr. James B. Hartle, Inst. for Theoretical Physics, Univ. of California, Santa Barbara, CA 93106-4030, USA.
Tel: 1 805 893 2280
Fax: 1 805 893 2431
E-mail: hartle@itp.ucsb.edu
WWW: <http://www.itp.ucsb.edu>

GALACTIC HALOS

August 11 - 15, 1997, Santa Cruz, CA, USA.
Contact address: Dr. Dennis Zaritsky, Lick Obs., Univ. of California, Santa Cruz, CA 95064, USA.
Tel: 1 408 459 5170
Fax: 1 408 426 3115
E-mail: halomeeting@ucolick.org
WWW: <http://www.ucolick.org/instruct/halomeeting>
STELLAR ASTROPHYSICS (1997 Pacific Rim Conference)
August 13 - 16, 1997, Kowloon, Hong Kong
Contact address: Dr. Kwing L. Chan
E-mail: maklchan@usthk.ust.hk

ASPEN WORKSHOP ON GAMMA RAY BURSTERS

August 18 - September 5, 1997, Aspen, CO, USA.
Contact address: Aspen Center for Physics, 200 W. Gillespie, Aspen, CO 81611, USA.
Tel: 1 303 925 2585
Fax: 1 303 920 1167
E-mail: jane@acpl.zgsw.com
WWW: <http://andy.bu.edu/aspen/application>

LARGE METEORITE IMPACTS AND PLANETARY EVOLUTION

August 30 - September 5, 1997, Sudbury, ON, Canada.
Contact address: Dr. Burhard Dressler, Lunar and Planetary Inst. 3600 Bay Area Blvd., Houston, TX 77058-1113, USA.
Tel: 1 713 486 2166
Fax: 1 713 486 2162
E-mail: dressler@lpi.jsc.nasa.gov
WWW: <http://cass.jsc.nasa.gov/sudbury97.html>

INTERNATIONAL SYMPOSIUM ON SUPERCOMPUTING

September 1 - 3, 1997, Tokyo, Japan.
Contact address: Dr. Toshikazu Ebisuzaki, Computational Science Lab., Institute of Physical and Chemical Research, 2-1, Hirosawa, Wako, Saitama, 351-01 Japan.
Tel: 81 48 467 9414
Fax: 81 48 467 4078
E-mail: ebisu@atlas.riken.go.jp
WWW: <http://atlas.riken.go.jp/horizon/>

INTERNATIONAL CONFERENCE ON VARIABLE STARS (90th Anniversary of V.P. Tsessevich)

September 1 - 5, 1997, Odessa, Ukraine.

Contact address: Prof. V.G. Karetnikov, Astronomical Observatory, Odessa State University, T.G. Shevchenko Park, Odessa 270014, Ukraine.

Tel: 7 0482 228 442

E-mail: root@astro.odessa.ua

ASTRONOMY FROM LARGE DATABASES III

September 7 - 10, 1997, Sonneberg, Germany.

Contact address: Constanze la Dous, Sonneberg Observatory, Sternwartstrasse 32, D - 96515 Sonneberg, Germany.

Tel: 49 3675 81210

Fax: 49 3675 81219

E-mail: aldiiii@stw.tu-ilmenau.de

SYNOPTIC SOLAR PHYSICS

September 9 - 12, 1997, Sunspot, NM, USA.

Contact address: Dr. Jack Harvey, NSO, P.O. Box 26732, Tucson, AZ 85726, USA.

Tel: 1 520 318 8337

Fax: 1 520 318 8278

E-mail: ws97@sunspot.noao.edu

WWW: <http://www.sunspot.noao.edu/INFO/MISC/WORKSHOPS/1997/ws97.html>

ASTRONOMICAL DATA ANALYSIS SYSTEMS AND SOFTWARE (ADASS'97) September 14 - 17, 1997, Sonthofen, Bavaria, Germany.

Contact address: Dr. Rudi Albrecht, ST/ECF, ESO, Karl-Schwarzschild-Strasse 2, D - 85748 Garching, Germany.

Tel: 49 89 320 06287

Fax: 49 89 320 06480

E-mail: adass@eso.org

WWW: <http://ecf.hq.eso.org/adass/adass97.html>

4TH HUNTSVILLE SYMPOSIUM ON GAMMA-RAY BURSTS

September 15 - 19, 1997, Huntsville, AL, USA.

Contact address: Dr. Charles A. Meegan, Marshall Space Flight Ctr., NASA Code ES-62, Huntsville, AL 35812, USA.

Tel: 1 205 544 7694

Fax: 1 205 544 5800

E-mail: meegan@ssl.msfc.nasa.gov

WWW: <http://www.batse.msfc.nasa.gov/information/4hgrbs>

LARGE SCALE STRUCTURES: TRACKS AND TRACES

September 15 - 20, 1997, Potsdam, Germany.

Contact address: Dr. Volker Müller, Astrophysikalishes Institut Potsdam, An der Sternwarte 16, D - 144482 Potsdam, Germany.

Tel: 49 331 7499 521

Fax: 49 331 7499 526

E-mail: pocowo@aip.de

WWW: <http://www.aip.de:8000/~pocowo>

CONVERGING COMPUTING METHODOLOGIES IN ASTRONOMY

September 17 - 18, 1997, Sonthofen, Bavaria, Germany.

Contact address: Dr. Michael J. Kurtz, Center for Astrophysics, MS-20, 60 Garden Street, Cambridge, MA 02138, USA.

Tel: 1 617 495 7434

Fax: 1 617 495 7467

E-mail: kurtz@cfa.harvard.edu

WWW: <http://cfa-www.harvard.edu/~kurtz/CCMAFinalConf.html>

IO DURING THE GALILEO ERA

September 22 - 24, 1997, Flagstaff, AZ, USA.

Contact address: Dr. John R. Spencer, Lowell Observatory, 1400 W. Mars Hill Rd., Flagstaff, AZ 86001, USA.

Tel: 1 520 774 3358, x17

Fax: 1 520 774 6296

E-mail: spencer@lowell.edu

WWW: <http://www.lowell.edu/users/ijw/ioconference.htm>

THE YOUNG UNIVERSE: GALAXY FORMATION AND EVOLUTION AT INTERMEDIATE AND HIGH

REDSHIFT

September 29 - October 2, 1997, Roma, Italy.

Contact address: Dr. Adriano Fontana, Osservatorio Astronomico di Roma, Via Osservatorio 4, Monte Porzio, I - 00040 Roma, Italy.

Tel: 39 6 942 8643 56

Fax: 39 6 944 7243

E-mail: fontana@quasar.mporzio.astro.it

WWW: <http://www.mporzio.astro.it/~highz>

SOLAR ANALOGS: CHARACTERISTICS AND OPTIMUM CANDIDATES

October 5 - 7, 1997, Flagstaff, AZ, USA.

Contact address: Dr. Jeffrey Hall, Lowell Obs., 1400 W. Mars Hill Rd., Flagstaff, AZ 86001, USA.

Tel: 1 520 774 3358

Fax: 1 520 774 6296

E-mail: jh@lowell.edu

WWW: <http://www.lowell.edu/users/jch/analogs.html>

ABUNDANCE PROFILES: DIAGNOSTIC TOOLS FOR GALAXY HISTORY

October 12 - 15, 1997, Québec City, Canada.

Contact address: Dr. Daniel Friedli, Université Laval, Ste-Foy, Québec, Canada G1K 7P4.

Tel: 1 418 656 2131

Fax: 1 418 656 2040

E-mail: dfriedli@phy.ulaval.ca

WWW: <http://astrosun.phy.ulaval.ca/astro/announcement.html>

ACCRETION PROCESSES IN ASTROPHYSICAL SYSTEMS

October 13 - 15, 1997, College Park, MD, USA.

Contact address: Dr. Susan Lehr, Dept. of Astronomy, Univ. of Maryland, College Park, MD 20742, USA.

Tel: 1 301 405 3001

Fax: 1 301 314 9067

E-mail: october@astro.umd.edu

WWW: <http://www.astro.umd.edu/october/>

CYCLICAL VARIABILITY IN STELLAR WINDS

October 14 - 17, 1997, Garching, Germany.

Contact address: Dr. Lex Kaper, European Southern Observatory, Karl-Schwarzschild-Strasse 2, D - 85748 Garching, Germany.

Tel: 49 89 320 06 229

Fax: 49 89 320 06 480

E-mail: windvar@eso.org

WWW: <http://www.eso.org/windvar>

ULTRAVIOLET ASTROPHYSICS BEYOND THE IUE FINAL ARCHIVE

November 11 - 14, 1997, Sevilla, Spain.

Contact address: Dr. Carmen Ramirez, IUE Observatory, Vilspa, P.O. Box 50727, E - 28080 Madrid, Spain

Tel: 34 1 813 1102

Fax: 34 1 813 1139

E-mail: sevilla@vilspa.esa.es

WWW: <http://www.vilspa.esa.es/iue/IUEconf.html>

SEARCH FOR EXTRA-SOLAR PLANETS WITH THE VLT/VLTI

November 17 - 19, 1997, Garching, Germany.

Contact address: Ms. Christina Stoffer, European Southern Observatory, Karl-Schwarzschild-Strasse 2, D - 85748 Garching, Germany.

Tel: 49 89 320 06 229

Fax: 49 89 320 06 480

E-mail: gwiedema@eso.org

WWW: <http://www.eso.org/xtrasol/>

ASTROPHYSICAL FLUIDS - FROM ATOMIC NUCLEI TO STARS AND GALAXIES

January 12 - 15, 1998, Haifa, Israel.

Contact address: Dr. Oded Regev, Dept. of Physics, Technion, 32000 Haifa, Israel.

Tel: 972 4 829 3992

Fax: 972 4 822 1514

E-mail: meeting@phastrol.technion.ac.il

GALACTIC SOURCES WITH RELATIVISTIC JETS

April 15 - 16, 1998, Milton Keynes, UK.

Contact address: Dr. Richard Ogley, The Open University, Walton Hall,
Milton Keynes, Bucks, MK7 6AA, UK.

Tel: 44 1908 652 123

Fax: 44 1908 652 192

E-mail: R.N.Ogley@open.ac.uk

WWW: <http://yan.open.ac.uk/~rogley/Workshop>

CHEMISTRY AND PHYSICS OF MOLECULES AND GRAINS IN SPACE

April 15 - 17, 1998, Nottingham, UK.

Contact address: Prof. Peter J. Sarre, Dept. of Chemistry, Univ. of
Nottingham, University Park, Nottingham NG7 2RD, UK.

Tel: 44 115 951 3460

Fax: 44 115 951 3466

E-mail: psa@star.le.ac.uk

WWW: <http://www.nottingham.ac.uk/faraday.html>

THE JOVIAN SYSTEM AFTER GALILEO -THE SATURNIAN SYSTEM BEFORE CASSINI-HUYGENS

May 11 - 15, 1998, Nantes, France.

Contact address: Prof. Christophe Sotin, Laboratoire de Géophysique et
Planéologie, Faculté des Sciences et Techniques, 2 rue de la Houssinière,
B.P. 92208, F - 44 322 Nantes, France.

Tel: 33 2 4037 3187

Fax: 33 2 4037 4957

E-mail: nantes98@chimie.univ-nantes.fr

THE INTERNATIONAL SPRING MEETING OF THE ASTRONOMISCHES GESELLSCHAFT IN GOTHA

May 11 - 15, 1998, Gotha, Germany.

Contact address: Dr. O. Schwarz, Uthmannstr. 8, D 99867 Gotha, Germany.

E-mail: sternwgth@aol.com

WWW: <http://members.aol.com/SternwGTH>

THE BL LAC PHENOMENON

June 22 - 26, 1998, Turku, Finland.

Contact address: Dr. Leo Takalo, Tuorla Observatory, FIN - 21500 Piikkiö,
Finland.

Tel: 358 2 274 4258

Fax: 358 2 243 3767

E-mail: takalo@oj287.astro.utu.fi

WWW: http://astro.utu.fi/bl_lac98

PRECISE STELLAR RADIAL VELOCITIES

(Under consideration as an IAU Symposium) June 21 - 26, 1998, Victoria,
B.C., Canada.

Contact address: Prof. John B. Hearnshaw, Dept. of Physics & Astronomy,
Univ. of Canterbury, Private Bag 4800, Christchurch, New Zealand.

Tel: 64 3 364 2533

Fax: 64 3 364 2469

E-mail: j.hearnshaw@phys.canterbury.ac.nz

PROTOSTARS AND PLANETS IV

July 5 - 10, 1998, Santa Barbara, CA, USA.

Contact address: Dr. Vince Mannings, CalTech, Dept. of Astronomy, 105-24,
Pasadena, CA 91125, USA.

Tel: 1 818 395 4169

Fax: 1 818 568 9352

E-mail: ppiv@astro.caltech.edu

WWW: <http://astro.caltech.edu/~vgm/ppiv>

ASYMPTOTIC GIANT STARS

August 28 - 31, 1998, Montpellier, France.

Contact address: Dr. Agnès Légré, GRAAL cc 072, Université Montpellier II,
F - 34095 Montpellier Cedex 05, France.

Tel: 33 4 6714 4735

Fax: 33 4 6714 4535

E-mail: agb98@graal.univ-montp2.fr
 WWW: <http://www.dstu.univ-montp2.fr/GRAAL/agb98-1.html>

5. IAU PUBLICATIONS

New Publishing Contract

The present contract for the publication of the IAU Symposia Proceedings, Transactions, Highlights of Astronomy, Information Bulletin and the Membership Directory with Kluwer Academic Publishers will terminate on December 31, 1997. Therefore, early in 1996 the IAU issued a call for tenders for a new contract for the period 1998-2003. As a response to this call for tenders the IAU received bids from four major international publishing houses. After careful evaluation of these bids the IAU Executive Committee decided to conclude the contract for the period 1998 to 2003 with the Astronomical Society of the Pacific. According to this contract ASP will publish the proceedings of all Symposia and General Assemblies taking place in the 6-year period starting on January 1st, 1998 and the Information Bulletins appearing in this period. The proceedings of the XXIIIrd General Assembly and all of the Symposia scheduled for 1997 will still be published by Kluwer Academic Publishers.

Transactions XXIII A

Eds. I. Appenzeller
 Hardback USD 195.00 GBP 117.0 0-7923-4540-1

Symposia Series (Kluwer Academic Publishers)

Special offer from Kluwer Academic Publishers to IAU Members on IAU publications: Members of the IAU receive a discount of 33 1/3% off the price of the hardbound Symposia and Highlights volumes. They may purchase paperback copies of Symposium proceedings at NLG 70.00 per copy and paperback copies of the Highlights at NLG 105.00 per copy. The Transactions may be purchased at NLG 115.00 per copy.

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6. MEMBERSHIP: WWW

We would like to remind all colleagues that addresses of individual IAU Members can be obtained from the IAU World Wide Web server (URL address: see back cover of this IB).

7. OTHER MATTERS

INFORMATION ON UTC - TAI

UTC TIME STEP ON THE 1ST OF JULY 1997

A positive leap second will be introduced at the end of June 1997. The sequence of dates of the UTC second markers will be:

1997 June	30,	23 h	59 mn	59 s
1997 June	30,	23 h	59 mn	60 s
1997 July	1,	0 h	0 mn	0 s

The difference between UTC and the International Atomic Time TAI is:

from 1996 Jan. 1, 0h UTC, until 1997 July 1, 0h UTC: UTC-TAI = - 30s
from 1997 Jul. 1, 0h UTC, until further notice: UTC-TAI = - 31s

Leap seconds can be introduced in UTC at the end of the months of December or June, depending on the evolution of UT1-TAI. Bulletin C is mailed every six months, either to announce a time step in UTC, or to confirm that there will be no time step at the next possible date.

Martine Feissel
Director
Central Bureau of IERS

Page last modified by the [IAU Secretariat](#) on 2001-03-27.