

UIS-BULLETIN

UNION INTERNATIONALE DE SPÉLÉOLOGIE

1995

40

No. 1/2

EDITED IN MAY 1995 * EDITE EN MAI 1995 * AUSGEGEBEN IM MAI 1995

THE UIS LIFE

Regular session of the UIS Bureau

The main session was held on November 23 and 24, 1994 with consultations on November 22 to 27, 1994.

The UIS Bureau members discussed the problem of *the UIS, its presence in the speleological world, future and ideas*. The broad discussion led to the definition of several priorities and to understanding how to prepare information on the UIS: to prepare the philosophy what is the UIS, to find some grant money, to prepare information brochure and 1 sheet information. The content of information brochure was decided to be as follows: main mailing address, short history, main field of the interest (art. 1 of the Statut), UIS structure, main goals and objectives for near future, relation between normal caver, national organisation and UIS, sportive /scientific problem, all UIS supported publications (BBS, Int.J.Speleo., Int.Cave Diving), UIS Documentation centres (Bernasconi, Bologna, Vienna), congresses and proceedings, commission and their activities with, addresses, coordination of research in karstology and links with major world scientific organizations (IAH, IGU, IGCP...), water resources, computer - electronic systems. Brochure to be prepared in main UIS languages.

The next point covered the *function of the UIS internal structures (bureau, commissions, departments)*. It was decided to distribute the internal responsibility within the Bureau Members (regional responsibility, the print of materials - brochures, booklets, etc. and 12th UIS Congress). The UIS Departments were established far in the past. To make situation and communication between the Bureau and Commissions easier it was decided to prepare so-called "super-commissions" or renew departments. Chiefs of super-commissions (Departments) should be Adjoint Secretaries of the Bureau. On the UIS Congress 1997, each of the Commissions have to present its activities and plans, like before the Beijing Congress, to make clear if the Commission/Working Group is active or not.

Next and very important point of the agenda was the question of the *communication with national delegates, national federations, clubs and the problem of the representation of member country within the UIS*. It was decided to compile the list of national speleological societies, federations or associations and other structures within the UIS member countries and in other states. The following *resolution* was adopted: if there are more than 1 national federation (society, association) in the UIS member country, they should come to the mutual agreement and to inform the UIS Bureau. If the agreement is not achieved, the membership of such country will be frozen until the agreement is finished. The best solution of such problem is to vote the national delegate from one federation and his substitute from the other one (examples of states with more than 2 "national" federations are rare)

Finances, financial models, annual member country contributions and payment conditions represented the next agenda point. The UIS has two account - the Vienna account is

62 924.35 ATS (about 5 500 USD) and the Prague account is 2 456.63 USD and 15 199.90 CZK (about 550 USD). The Vienna account is frozen and represents the "golden reserve" of the UIS. There are some incomes to the Vienna account as some member countries did not realized the change of the Secretary General and they are sending their payments to this account. The Vienna account should be open for several next years for above mentioned eventuality. It was decided to find Secretary Adjoint - manager - who will take care on financial policy of the UIS, i.e. who will look for grant or sponsor money and who will manage investments. According to the uniform opinion, if such manager is absent, no grant or sponsor money will appear. If necessary, the UIS Statut have to be changed. The discussion on the height of the annual contributions of individual states showed the big disproportions in payments. Some small states or states with small amount of speleologists are paying contributions of Category A and some big states are paying only contributions in Category C. It was adopted the *resolution* - countries obtaining money from cavers for caving and expeditions have to pay the contribution of A Category (300 USD per annum). There are several countries not covering their annual contribution for a long time (*Algeria, Bolivia, Tunisia, Morrocco, Namibia, Ireland, Israel, Danemark, Malaysia, several Central and Southamerican countries*).

It was decided to establish the *list of honour of the UIS*. The list will include only names of persons who contributed substantially to the *international* cooperation in karst and speleology and who worked for the UIS. The Past-Presidents and the Honourable Presidents are automatically included in the list. National delegates are invited to propose persons fulfilling above mentioned criteria and to send the proposal with shor CV to the Secretary General.

Concerning the *regulations of speleological activities abroad - ethic codex* it was stated the ethic codex - should be prepared only in the form of the general instructions as each state has its own legislation, regulations and instructions, task of next meeting. It was adopted that all persons/expeditions are obliged to send materials published on the results of the investigation into the country where the investigations were carried out. The strong criticism appeared on states where the payment for caving or expeditions is included in regulations (Albania, China, Russia were especially mentioned).

The UIS Bulletin, content and distribution. The UIS Bulletin will be published annually by the Secretary General in one number in English with headlines of important contributions in several languages. The UIS Bulletin can be translated by national organisations for publication in local and national media The basic information on the UIS will be prepared in the camera ready form to be published in national/international bulletins, journals and other media. The UIS Bulletin will be distributed also by electronic media and networks - Peter Matthews, President of the UIS Informatics Commission will be the responsible person.

Point concerning the *translation of the UIS Statut and other basic documents into all UIS languages* - the UIS Statut exists now in French, Russian and German. The Russian version was found by Trimmel in archives and the German version was prepared by U. Widmer. U. Widmer, on the basis of the German translation, prepared the changes and improvements of the Statut in German. Changes were accepted and will be prepared for the Assembly General 1997

The *discussion on general directions and recommendations for organizers of the international congresses of speleology* - it was stressed that there is existing the motion of the General Assembly of the 8th International Congress of Speleology from Bowling Green, USA, held on July 22, 1981 that **the payment from events (Congresses, Symposia, Conferences, Workshops, Meetings, Field Excursions etc.) under the name of the UIS and/or using the UIS logo was set at 5% of the event registration fee, with a minimum of 3 USD per each registered (paying) participant.**

There were also discussed the *ideas for future agendas and assemblies general*, e.g. (1) improvements of the Statut - implementation of the possibility of Regional Federations to exist

as the unit of the UIS (e.g. already existing Speleological Federation of the European Union, FEALC, or in preparation Speleological Federation of Balkan States, etc.) with the aim to help the UIS with regional questions, (2) individual membership - in general it was agreed (but not unanimously), that some kind of passive membership should exist, (3) problem of voting procedure - one member country one vote, no proportionality according to annual contributions, (4) problem of annual contributions - the height cannot be stated by some regulation. The number of organized speleologists can be one of viewpoints for recommendation of contributions, (5) search for financial supports - for sponsors - after the solution of the Manager, the special account should be established, rules should be stated and special committee should be elected (1 Bureau Member will be delegated into the Grant/Sponsor Commission).

Some *new commissions/working groups* were created. It was stated, that Commissions established should be time-limited in their life, i.e. they are not established forever, and that new Commission will be created only to solve well - defined problem or project. It was stated that the Publication Manager for the UIS publications should be found. It was stated that the UIS is gradually losing its scientific value. The giant UIS Commission on Physico-Chemistry and Hydrogeology of Karst should be divided. Hydrogeology and hydrology should be separated. The UIS Bureau strongly supports the creation of the new *Working Group - Karst Hydrogeology and Speleogenesis*. The new Working Group is settled up. The UIS Bureau will present the change into the Commission in the next Assembly General. A. Klim_uk proposed to construct the network of servers within the INTERNET (see the contents of the Bulletin) and to prepare the list of computer addresses. The problem should be discussed with P. Matthews, Informatics Commission. The UIS Bureau hardly supports the idea and activity.

The final point covered various topics, e.g. the information on the cooperation of the Speleological Federation of the European Union and the UIS. The agreement should be prepared, and the initiative of the International Geographic Union which asked the UIS for the official collaboration. The agreement should be prepared.

The next UIS Bureau Meeting will be held on October 4-10, 1995 in Breitenbach, Switzerland.

IMPORTANT NOTE FOR ALL. All initiatives, notes, motions and comments to be included into the agenda should be delivered to the UIS Secretary General not later than August 31, 1995 to be able to distribute them within the UIS Bureau members.

Dr. Pavel Bosák, the UIS Secretary General

INTERNATIONAL JOURNAL OF SPELEOLOGY

**NEW SUBSCRIPTION OF THE INTERNATIONAL
JOURNAL OF SPELEOLOGY ARE VITAL:
PLEASE DO YOUR BEST TO GET MANY MORE!**

Address: Prof. Ezio Burri, Editor, Department of Environmental Sciences, University of L'Aquila, Via Vetoio-Loc. Coppito, I-67100 L'Aquila, Italy, t.: 0039-862-433222, f.: 0039-862-433205

Older numbers of the UIS-Bulletin

The volume 38 of the UIS-Bulletin as well as the most earlier volumes of the UIS-Bulletin are available on request by the UIS Past-President Prof. Dr. Mag Hubert Trimmel (Draschestrasse 77, A-1230 Wien, Austria). The volumes 39 to 40 are available on request by the UIS Secretary General Dr. Pavel Bosák.

ANNUAL CONTRIBUTIONS CHANGED

The UIS General Assembly decided to rise annual contributions of the UIS member countries. Beginning with 1994, the annual contributions will be as follows:

Category A	300 USD
Category B	200 USD
Category C	50 USD

Each UIS member country has the free choice of the category in accordance with its own financial possibilities and with the number of speleologists or speleological societies/ associations/ federations/ clubs/ institutions

The UIS Bureau is authorized to reduce or to remit the contributions, if the UIS member country makes a respectively written demand. If the UIS Bureau requires, the UIS member country has to give reasons for the difficulties of a payment.

The authorization of the UIS Bureau to reduce or remit the contributions confirms that the impossibility of a payment by actual political problems of difficulties will not be an argument to exclude any member country from the international collaboration within the structure of the UIS.

Errata and changes of addresses

Commissions

In the UIS Bulletin, Vol. 39., Nos. 1/2, 1994, there are missing two UIS Commissions in the official list. Please, add following ones to your lists:

Group de travail: Karst hydrothermale (Dept.Rech.Sci.)

Président: Yuri Viktorovich DUBLYANSKI

Institut of Mineralogy and Petrology, Russian Academy Sciences, Siberian Branch, University Avenue 3, Novosibirsk 630090, Russian Federation

Phone: (3832) 353-654, (3832) 353-659

Fax: (3832) 352-692

Telex: 133 123 KORA SU

E-mail: dublyan@diamond.nsk.su

Commission de grand cavité (Dept.Document.)

Président: Claude CHABERT

9, avenue Jean-Moulins, F-75014 Paris, France

Changes of the UIS national delegates and addresses, telephone and fax numbers

AUTRICHE

Günter STÜMMER, Tel. home: 00.43.1.768802, work: 00.43.1.930418, Fax: 00.43.1.935254

BELGIQUE

Jan VLOEBERGS, Tel.: 00.32.16.237899

BOSNIE ET HERCEGOVINE

Jasminko MULAOMERIVI_, E/mail: j.mulaomerovic@zamir-sa.ztn.zer.de (SARIC-MUNIB-NINO)

BRÉSIL

Delegate

José Ayrton LABEGALINI, address see UIS Bull. 39

Substitute

Túlio Ibañez NUNES, Sociedade Brasileira de Espeleologia, Rua Minas Gerais, 221, Monte Si_o
37580-000, MG, Tel./Fax.: (035) 465-2041

CROATIE

Substitute

Tihomir KOVAČEVIČ, Croatian Speleological Association, Nova Ves 66, HR-41000 Zagreb,
Croatia, Tel. and Fax: 385.1.277548, E-mail: Mladen.Garasicpublic.srce.hr

CUBA

Prof. Antonio NUÑEZ JIMÉNEZ

fax: (537)33-0438

ESPAGNE

Substitute:

Migue BUENO, Federacion Española de Espeleologia, Avgda. Francesco Cambó, 14-9.º-B, E-08003
Barcelona, Tel.: (93) 310 70 62, (93) 310 76, 12, Fax: (93) 315 16 24

MEXICO

José PALACIOS VARGAS, Fax: 52-5-622.4828

José Antonio GAMBOA VARGAS, home: Calle 44, No. 519, M.e/69 y 71, 97000 Mérida, Yucatán,
Mexico, Tel. home: 52-99-24.62.48

INDE

M. Narayana REDDY, c/. Dr. V.V. Narayana Reddy, 234 Organic Dn. III, I.I.C.T., Hyderabad 500
007 A.P., India

INDONÉSIE

Dr. Robert K.T. KO, Tel.: 62.251.43.76, Fax: 62.251.53.43

ISLANDE

Sigurdur Sveinn JÓNSSON, Tel.: 354-1-62.18.75

LUXEMBOURG

Delegate

Roger SCHINGTEN, 77, Rue Burgund, L-4039 Esch/Alzette, Tel.: (352) 548579

Substitute

Carlo WIRTH, 6, Cité Princesse Amélie, L-7262 Walferdange, Tel.: (352) 335664

PAYS-BAS

Delegate

Dr. Herman de SWART, Koolstraat 56, NL-2312 PT Leiden, Tel.home: 31.71.210152, work:
31.70.3165450, Fax: 31.70.3165452

Substitute

Henk GOUTHIER, Oostergo 9, NL-2716 AP Yoetermeer, Tel: 31-79-512437

RUSSIE

Grigori Z. FAJNBURG, E-mail: air@mine.perm.su

SUÉDE

Delegate

Dr. Rabbe SJÖBERG, Bodviksvägen 14, S-910 24 Obbola, Tel. and Fax: 090.45258

Substitute

Anders H. LINDÉN, address see UIS Bull. 39, Tel.: 023.31492, Fax: 023.31470

SUISSE

Jean Claude LALOU, address see UIS Bull. 39

UKRAINE

Dr. Aleksander KLIMCHOUK, Fax: (044) 512-82-83

Changes in the FEALC addresses

BAHAMAS

Jill YAGER, Fax: 1-513-767.18.91

BOLIVIA

Rodolfo BECERRA DE LA ROCCA, Tel: 591(2)-32.16.19

COLOMBIA

Eliseo AMADO GONZALES, C 11 34 B No. 96-19, Int. 2-203, Santafe de Bogotá

Ludis MORALES, Calle 34B, No. 96-19, Int. 2, Apt. 203, Bogotá, D.E. Colombia, Fax: 57(1) - 415.2968

ECUADOR

Giovanni ONORE, Fax: 593-2-565912

GUATEMALA

Mike Shawcross, 4a. Calle Oriente No. 5A, Apartado Postal 343, 03901 Antigua, Tel.: (011-502-9) 320-161

Changes of addresses

Dr. Roman HAPKA, Charmettes 12, CH-2000 Neuchâtel, Switzerland, Tel.: (038) 259629

bureau: Université de Neuchâtel, Séminaire de Préhistoire, Avenue DuPeyrou 7, CH-2000 Neuchâtel, Fax: (038) 242816

Prof. LEE Byung-Hoon, Department of Biology Education, Jeonbug National University, Deogjin/dong, Deogjin/gu, Jeonju 560-756, Republic of Korea, Tel.: 82-652-70-2783, Fax: 82-652-70-2869

Joep ORBONS, P.O.Box 1614, NL-6201 BP Maastricht, The Netherlands, E-mail: jorbons@xs4all.nl

New national federation

The Romanian Federation of Speleology (RFS) unified all formerly existed Romanian speleological structures within only one federation short time ago. The Honorary President of the RFS is Prof. Marcian Bleahu, the Federal Bureau is chaired by the President - Mr. Viorel Traian Lascu. International relations are in the responsibility of Mr. Razvan Petrescu, Vice-President of the FRS. The contact address is: Str. Izv. Trotusului nr. 2, bl. D8, ap. 28, sect. 4, RO-75395 Bucuresti, t.: 0040-1-6595446 and 6505739, fax: 0040-1-3123767.

News from UIS Commissions and Working Groups

Commission on protection, exploitation and touristic

The Commission President kindly asks all national delegates and responsible persons to contact him or the Commission Secretary and to give him to know name(s) of responsible national delegates in the Commission. Contact address: Prof. Dr. France Habe, Vojkova 2, Postbox 44, SLO-66230 Postojna, Slovenia or Dr. Karl Mais, Director, Institut für Höhlenforschung, Naturhistorisches Museum, Messeplatz 1/10/1, A-1070 Wien, Austria.

Cave Rescue Commission

1) Since the Budapest meeting, the Commission had plentiful activities.

Despite the international background which slowed down its actions, the Commission's balance sheet is positive.

The Commission would like to thank the federations of France, Italy, Bulgaria, Cuba and United Kingdom for their invaluable help.

2) The UIS Rescue Commission took part in the following realisations:

- International training course of cave rescue organized by the French Cave Rescue.
- National Meeting of the French Medical Commission at which one doctor from each European country was invited.
- International Rescue meeting in Bulgaria which, although fully organized, was cancelled for lack of participants in a troubled international background.
- Participation to the 50th Anniversary Congress in Cuba where the Commission helped to organize Cuban Cave Rescue.
- Congress of the Federation of Latin America and Caribbean Countries where the Cave Rescue School for Latin American and Caribbean Countries was created.

Well-known "Petzl" graciously offered enough gear for five equipments.

- Presence at the French Federation of Speleology Congress (years 1990, '91, '92), at Rescon '92, at the European Conference of Speleology in 1992.

The Commission had three meetings in France, Bulgaria, Belgium and numerous working sessions.

3) Europe has a good infrastructure in the cave rescue field; so the interest of the Commission turned herself to Latin America.

4) Dr. Ercilio Vento Canosa, delegate from Latin America, took part to the creation of the Cuban Cave Rescue and gave training sessions in Mexico (Yucatan).

5) A newsletter for the Commission members: two issues were edited:

- the Italian review "Speleo-Soccorso" opened up for us its columns;
- a document concerning trans-frontiers rescue was edited and can be sent to anyone interested.

6) Despite our calls to assistant-secretaries, it has not been possible, as before, to establish any collaboration with Asia, Oceania, Australia.

7) At last, during her last meeting at the European Conference, the Commission proposed, due to the weak participation of the rescue organisations to the next UIS Congress in China, to continue with all the members, each in his actual function until 1997.

André Slagmolen

Commission for Cave Diving

Short description of activities and plans:

The cave diving commission has not met for some years, the last meeting was in Austria in 1990. During the International Speleological Congress which took place in China in 1993, Alessio Fabbriatore was appointed Chairman of the Cave Diving Commission.

It is hoped that it will be possible to organize a meeting of the Cave Diving Commission in Italy in Autumn of 1994; all the members of the Commission will be informed regard this.

Owing to the many expenses incurred by Editor to cover the issue of the international "U.I.S. Cave diving magazine", it is not possible to ensure the issue of the edition of this year. An adequate sponsoring from the U.I.S. will be very appreciated in order to guarantee the continuity of the magazine.

Alessio Fabbriatore

Techniques and Equipment Commission

We will continue to publish our newsletter *Techniques News* on a periodic basis when we have material of interest to members. In this regard, our work is continuing on adapting the equipment tests done by the UIAA (Union of International Alpine Associations) to the needs of the UIS. These will be published in *Techniques News* as they become available.

Furthermore, we want to encourage all UIS members to report on any equipment testing in their countries for publication in *Techniques News*.

The latest issue of *Techniques News* (1993:1) is available to UIS members and member organizations. To receive a copy contact the Techniques and Equipment President. *Techniques News* (1993:1) contains the following articles:

- * Does the Figure 8 Descender Damage Ropes?
- * Call for Adoption of UIAA Equipment Standards
- * List of UIAA Recommended Equipment-March 1993
 - Carabiners
 - Harnesses
 - Helmets
 - Accessory Cords
 - Tape Material (Tubular nylon sling material)

David McClurg

Commission of Bibliography

Activities of the Commission:

To edit annually a world-wide speleological bibliography "Speleological Abstracts".

To list national or specialized speleological bibliographies.

To organize a documentation service through national speleological libraries by photocopies and later by computer network.

Dr. Reno Bernasconi

Commission for Archaeological Studies in Caves

The importance of effective communication between scientists conducting archaeological research in caves was acknowledged during the XIth International Congress of Speleology in Beijing, China, in August 1993. Therefore, the directive council of the International Union of Speleology decided to create a new International Working Group to address this issue: the Commission for Archaeological Studies in Caves.

The objectives of the Commission are as follows:

- to promote worldwide communication between researchers conducting archaeological studies in caves;
- to develop a working program on aspects of science, education, and protocols for responsible treatment of archaeological sites by cavers;
- to initiate contacts with cavers and speleological expeditions;
- to organize meeting and seminars to report on cave archaeology projects.

The initial group is composed of: Roman Hapka (Switzerland), co-president, David Hubbard (USA), co-president, Jerald J. Johnson (USA), Washington Simoes (Brasil), George Veni (USA), secretary.

The first meeting of the Commission will be held during the National Speleological Society Convention in Brackettville, Texas, on 20-24 June 1994. All interested scientists and cavers are encouraged to attend. For more information contact Hapka (F.-C. de Marval 24, Ch-2000 Neuchâtel, Switz.), Hubbard (40 Woodlake Dr., Charlottesville, VA 22901), or Veni (11304 Candle Park, San Antonio, TX 78249-4421).

The second meeting will be held in the National Congress of Switzerland Speleological Society in Breitenbach, October 6-8, 1995.

Dr. Roman Hapka

Commission on Artificial Cavities

Some new projects the working group will be working on the next four years:

We would like to tackle a lexicon of words specific for artificial cavities. Many attempts have been made to produce one, latest in 1991 by Eduardo Capuano and Joep Orbons. New words and insights and languages have emerged, so that is one area.

To ease the contact between members of the working group a computer bulletin board (BBS) could be set up. Anyone with a computer could log into this computer and find the latest information. Questions and answers work very rapid and efficient. This BBS could contain the last information, a list of publications, a "questions and answers" area, an exchange of ideas, etc. etc. To test this out, I think we have to start slowly, as a BBS is expensive. An extra telephonenumber and a computer are not really cheap. We can start by producing a floppy-disk with text files on it. I will produce the first Souterrains-floppy and send it around with Souterrains 4 at the end of the year. In it I would like to have some text-files. You can then add or change these text files so the information on it will be up to date. Once it gets back to me, I combine the information and send it around again. Hopefully it works!!!

The first Souterrains-floppy will have a text file with underground places you can visit like museums, tourist guided tours etc. An other text file could have summaries of recent publications. Could anyone who has information ready that I can put in these text-files send this to me.

Joep Orborns

Commission of artificial cavities

The Actes of the 3rd International Symposium on Underground Quarries, held in Napoli from 10 to 14 July 1991, have been published now by the Club Alpino Italiano. Sezione di Napoli, and the Societa Speleologica Italiana, with the aid of the regional authorities. It's a volume well presented with 310 pages, printed in Napoli in Octobre 1994. Information concerning this publication can be obtained by Dott. Alfonso Piciocchi, Parco Comola Ricci, 9, I-80122 Napoli, Italy.

HT

Informatics Commission

Activities:

The Commission's purpose is to encourage and facilitate the responsible collection and use of cave and karst data. This includes both the manual and computerised aspects. The Commission's newsletter, *Informatics Bulletin*, is published approximately twice per year.

Current projects are:

- an ongoing multi-lingual, database-independent, list of agreed karst data field definitions, in co-

operation with IGU and IAH.

- a comprehensive "Speleological Subject Classification" scheme, in co-operation with the UIS Bibliography Commission (needed for classifying data fields).
- a database-independent karst data transfer standard.
- multi-lingual karst database software embodying the above standards.
- a bibliography of cave and karst informatics.

Peter Matthews

Commission on Protection, Exploitation and Tourism (Cave Management/Show Cave Commission)

Summary of Commission work 1992-1994

Commission President: Russell Gurnee (United States)

Co-President: France Habe (Slovenia)

The last official meeting of the Cave Management/Show Cave Commission took place at the European Conference of Speleology, Helecine, Belgium, August 20-23, 1992. No meeting of the Commission was called at the 11th International Congress, held in Beijing, China. Without formal elections the present officers, Professor France Habe and Russell Gurnee will continue to serve until the next official meeting.

However, there have been meetings of various Commissions of the UIS related to the conservation and protection of caves since the Helecine meeting specifically directed to the problems of Show Caves.

1. Report on the activities of the commission since the last meeting in Helecine, Belgium, August 20-23, 1992.

EUROPE

- a) European Conference on Show Caves, October 9-11, 1992, (Chateaudun, France). This meeting was attended by representatives from Austria, Czechoslovakia, France, Italy, Spain, Sweden and Switzerland.
- b) International Symposium "Man and Karst", Postojna (Slovenia), September 23-25, 1993. Featuring papers related to Show Caves in Europe.

USA

- c) 27th National Caves Association Convention, October 5-7, 1992
(Cave of the Mounds, Wisconsin, USA)
- d) 28th National Caves Association Convention, October 18-22, 1993
(Spring Mill State Park, Indiana, USA)
- e) 11th National Cave Management Symposium, October 27-30, 1993
(Carlsbad, New Mexico, USA)

AUSTRALIA

Australasian Cave and Karst Management Association meeting in Queensland, Australia, May 17-23, 1993

2. Proposed meetings regarding cave management and Show Caves.

- a) The next official meeting of the commission will be in conjunction with the 12th International Congress of Speleology in Switzerland, August 1997.
- b) The International Show Caves Association has proposed a meeting of that organization in Spain 1994. No date has been announced.

3. Recommendations for continued work of the Commission during the next four years.

The International Show Caves Association provides a logical vehicle for the assembly and distribution on public information on Show Caves around the world. Increased tourism and communication in the next decade will provide an impact on cave protection and affect the preservation of caves. It is hoped

that there will be several meetings sponsored by different countries to address specific problems such as:

Show Caves

- a) Visitor capacity
- b) Internal management within the caves
- c) Interpretive training and public information
- d) Maintenance, safety, and construction techniques

Karst Preserves

- a) Surface maintenance i.e. drainage and construction
- b) Pollution control
- c) Agriculture and landscaping
- d) Legislative approval and access control of caves
- e) Public relations and interpretive information

Russell Gurnee

Education Department

Assessment of 1989-1993 activities

1) Information - Administration

* Circular to all the representatives of UIS member countries, and to UIS Teaching Department collaborators (first circulation on Feb. 1 st 1992 and second one on Feb. 1994)

* The UIS Teaching Department (Teaching Commission and "Children and Caving" working group) has a card index file of contacts with 40 national speleological structures, and about 80 collaborators.

2) Publications

* Publishing of *UIS Enseignement* n° 5 (by J.C.Frachon) and circulation during Budapest Congress on August 1989: 20 pages in French, and later on punctual circulation with English translation.

* Circulation of *UIS ENSEIGNEMENT* n° 5 bis (14 pages about proceedings of UIS teachers meeting in Liège, Belgium, Spéléomania, March 1989).

3) Meetings - Training

* Forum on speleology teaching during the 20th Anniversary of Quebec Speleological Society in Montreal on July 1 st 1990: 20 participants from three French speaking countries (Belgium, France and Quebec).

* International cave-rescue training course in Jura, from 16th to 29th of July 1990, organized by the S.S.F. (French Cave Rescue Organization) with the UIS Teaching Department agreement. Foreign cavers were involved: 21 participants from 9 countries (Belgium, Czechoslovakia, France, Hungary, Italy, Luxembourg, Poland, Portugal, Spain).

* International meeting about topography, organized by the S.S.S. (Swiss Speleological Society) in Charmey (Switzerland). 12th-13th September 1991, with the UIS Teaching Department collaboration. There were about thirty participants from 6 countries (Austria, England, France, Germany, Italy, Switzerland).

* UIS Teaching Department meeting (September 1991, 14th), during the 9th national Congress of the S.S.S. (Swiss Speleological Society), in Charmey. Nine countries were represented: Austria, Belgium, France, Germany, Hungary, Netherlands, Poland, Romania, Switzerland.

* UIS Teaching Department meeting (August 1992, 22nd) during the European Conference of Speleology in Helecine (Belgium). Eleven countries were represented: Austria, Belgium, Czech Republic, France, Greece, Netherlands, Portugal, Romania, Russia, Slovenia, Spain.

* "Children and Caving" working group meeting (August 1992, 22nd), during the same Conference. Six countries were represented: Belgium, France, Netherlands, Portugal, Slovenia, Ukraine.

4) Documentation

Gathering of all publications about speleological teaching, pedagogy in use, guidance and supervising of the activity, and as well of experience reports, dissertations (with children, teenagers, adults, physically or mentally disabled persons...).

1994-1995 Activities Program

Due to no specific financing, the UIS Teaching Department use mainly the possibilities of meetings during the speleological congress organized in Europe in Europe (Belgium, France and Switzerland chiefly).

* Symposium about speleological teaching (Orthez, Pyrénées Atlantiques, France, May 21 st, 1994), during the National Congress of the French Speleological Federation.

* UIS Teaching Department meeting (Orthez, Pyrénées Atlantiques, France, May 22nd, 1994), during the National Congress of the French Speleological Federation.

* UIS Teaching Department meeting (Breitenbach, Switzerland, October 6th-8th, 1995) during the National Congress of the Swiss Speleological Society.

* The last meeting between instructors dates back to 1989, in Liège, during which a new one asked for. What must be done is to organize it in Europe.

* The next issue of UIS Enseignement (n° 6) is to be in 1994.

* The proposal of a program for 1989-1993 is still valid: finding financial aid; promoting international exchanges (bi-governmental agreements) ; permanent exchanges of information.

Marcel Meyssonnier

The regular session of the Department will be held in Breitenbach (10th National Speleological Congress), Switzerland on October 6, 1995.

Commission of Speleotherapy

The Actes of the Tenth International Symposium of Speleotherapy, held at Bad Bleiberg in autumn 1992, have been printed now. The volume has been published under the title *Beiträge zu Speleotherapie und Höhlenklima, II* (Contributions to speleotherapy and cave climate, II) as the number 48 of the publication *Wissenschaftliche Beihefte zur Zeitschrift Die Höhle* by the Federation of Austrian speleologists. He is available by the Verband österreichischer Höhlenforscher, Obere Donaustrasse 97/1/61, A-1020 Wien, Austria). The book publishes more than 50 communications and has 320 pages. The price is 250 ATS.

The Commission prepares at the moment the 11th International Symposium of Speleology foreseen in Perm (Russia) on October 1995. Difficulties especially in the transport systems are the cause that it has not been possible to give definitive information concerning dates and costs at the event. The Commission works actually for a better coordination and a common development and research program in the speleotherapeutic stations in Austria, Hungary, Slovenia and in the Czech Republic, as well other Ceres in Central Europe.

HT

International Working Group Glacier Caves and Karst in Polar Regions

Activity of the group

The International Working Group "Glacier Caves and Karst in Polar Regions" was created in August 1989 during the X International Congress of Speleology of UIS-UNESCO which took place in Budapest, taking account the numerous works presented there which developed investigations on karst in ice.

The scope given to the referred Working Group would be as follows:

- joint and co-ordinate all people in the world who deals with this risky and difficult speciality,
- development of a working programme for the next four years in the scientific, sportive and educational

aspects of this speciality,

- preparation and organization of expeditions to both polar circles (Arctic and Antarctic) and to high mountains glaciers in order to contrast the results of several places in the planet,
- organization of Meetings and Symposia which allow the contrast of results and discussions of the scientific, sportive and educational aspects,
- start contacts and co-operation with glaciologists and scientists of the Glaciology Commission of SCAR (Scientific Committee of Antarctic Research), the International Glaciological Society (IGS) and International Arctic Scientific Committee (IASC).

Up to now, our Working Group has organized three international symposia:

- 1st International Symposium of Glacier Caves and Karst in Polar Regions, held in Madrid, oct. 1-5, 1990, organized by the Polytechnical University of Madrid, Spain.
- 2nd International Symposium of Glacier Caves and Karst in Polar Regions, held in Miedzygorze-Velká Morava, Feb. 10-16, 1992, organized by the Silesian University, Poland.
- 3rd International Symposium of Glacier Caves and Cryokarst in Polar Regions, held in Chamonix, Nov. 1-6, 1994, organized by the CNRS and GDR "Recherches Arctiques", France.

As a consequence of the balance of activities presented by our International Working Group in the XI International Congress of Speleology of UIS which took place in Beijing (China) in August 1993, the General Assembly of UIS agreed to elevate our Working Group to the **International Commission** status.

For this reason, I am very pleased to congratulate all the Members of our International Commission for the activities they are developing and encourage them to continue to satisfy their scientist's curiosity in the fascinating world of ice.

Adolfo Eraso

Working Group Glacier Caves and Karst in Polar Regions

The 3rd International Symposium of the Working Group has been realized during the first days of november in Chamonix (France). The participants coming from 10 different countries have discussed also problems of Glacier Caves and Cryokarst in High Mountain Regions. The 4th International Symposium will be organized in the glacier regions of the Austrian Central Alps (Alpinzentrum Rudolfshütte, Hohe Tauern, Salzburg) in the first days of september 1996. Information and correspondence: Univ.Prof.Dr.Heinz Slupetzky, Institut für Geographie der Universität, Hellbrunnerstrasse 34/III, A-5020 Salzburg, Austria.

HT

Commission on Karst Atlas

The Commission prepares a further supplementary volume of the *Zeitschrift für Geomorphologie* as a part of the international atlas on karst phenomena. The new edition will have a thematic orientation to *Alpine or High Mountains Karst*. Five authors have accepted the proposal to prepare maps of characteristic karst regions. Information can be obtained by Univ.Prof.Dr.Karl-Heinz Pfeiffer, Geographisches Institut der Universität, Hölderlinstrasse 12, D-72074 Tübingen, Bundesrepublik Deutschland.

HT

Commission on cave protection and exploitation (show caves)

In November 1994, the International Show Association, as a collaborating organisation of the Commissions work, held a Congress and the General Assembly by the Cuevas de Nerja in Southern Spain. Many information has been presented concerning the problems of cave tourism. It was the first event of the Association with a representative delegation of the Popular Republic of China. The Director of the Lummelundagrottan (Lummelunds Bruk, S-62171 Visby) in Sweden has been elected the new

President of the International Show Cave Association. A special volume of the *International Journal of Speleology* dedicated to the communications of the last General Assembly of the Association in Genga (Italy) has been firstly distributed in Nerja.

The General Assembly of the Association has accepted an invitation to held the next Conference on Show Caves in the United States in autumn 1995. Concerning the preparation of the General Assemblies at the same time than the International Congresses of Speleology, the members have difficulties by the fact, that in many cases the time of the International Congresses of Speleology is into the great season of the cave tourism, so that administrators of show cave cannot be absent from her cave.

HT

Commission of physical chemistry and hydrogeology of karst

The Commission have 100 members from 31 countries, 2 International programs and a working group:

1. The PIGEK program led by A. Eraso and M. Pulina is starde in 1980 and is still in progress.
2. The luminescence of cave minerals program, led by Y. Shopov was started in 1988 and presumed to finished before the XIth Speleological Congress, but it is still in progress and is suggested to continue as long as the necessary data will be accumulated. The Status report of this program is applied.
3. The Working Group on Speleothem records of environmental changes is started in 1990 and is suggested to become permanenet working group of UIS. The Status report of this Group is applied.

In 1991 Shopov tried to prepare an activities report of the Commission for 1981-1991 yr, but only 7 members sent their personal reports, so it was impossible to prepare such a report. We thank to C. Hill, E. Joyce, I. Muller, H. Franke, R. Pavusa and both S. Roda for their reports.

There was 3 inofficial meetings of the commission in USA in 1991-1993. The last one during the IGCP 299 field trip in Washington was the first joint meeting of all karst commissions of all scientific unions working on karst. It was a new step of integration of karst research. Shopov suggested to make joint list of members of all karst commissions and to make joint meetings during every congress dealing with karst, because separate meetings of any commission was never attended by more than 15 of it's members. Any of the commissions is free to make additional closed meetings. The next such meeting will proceed during the Geomorphology congress in Hamilton. Several joint projects of interest for all commissions was suggested and discussed. Such are the international database of karst regions, world karst map, etc. It is largely believed, that this integration can strongly stimulate and accelerate the development of the cave and karst research. Probably many unpublished data will be distributed through this network and the moral ethic of all people using it has to be superb, because stilling of ideas and data will be very easy. Any such cases must be reported immediately to all leaders of the karst commissions and the access of the offenders to the network must be denied immediately. I already detected one such case.

In order to have better intergration the leaders of all karst commissions was invited to become members of all other commissions. It was accepted. This way our commission received several more excellent members. The list of members of the Commission was sent to the leaders of the other commissions. In order to improve the scientific level of the Commission it's secretary invated several distinquised karst researches to join the Commission.

Y. Shopov

Working Group on *Speleothem Record of Environmental Changes* of the UIS commission of Physical Chemistry and Hydrogeology of Karst

The working group Speleothem Records of Environmental Changes in the Past (SRECH) of the UIS commission of Physical Chemistry and Hydrogeology of Karst has been started in the end of 1990. It was founded by biggest part of the members of The International Program *Luminescence of Cave Minerals* (IPLCM) after a suggestion of T. Arakawa, later developed and proposed by Y. Shopov at the official meeting of the commission in Brno, Czech Republic in September 1990. The original proposal

was approved by this meeting and several days later supported by the ICSU Round Table on *Space and Solar influences on the Environment*. It have separate leaders of the different topics of research and one coordinator. D. Lal, Y. Shopov, A. Latham, D. Ford and T. Arakawa, P. Forti, G. Brook and W. White was elected for topic leaders and Y. Shopov for coordinator of the Group. T. Arakawa later proposed N. Hori and H. Muira for topic leaders of the paleotectonics topic. But they does not respond to the letters of the coordinator as well as leaders A. Latham and G. Brook. So their contribution to the Group so far is zero and I search for new leaders or co-leaders of the Paleomagnetism and Pollen analysis topics.

In conclusion the Working Group SRECH is very successful and produce significant contribution to the cave science and to it's appreciation by other sciences. It is one of the most promising activities of UIS and is an unique opportunity to attract the attention of the main stream scientists.

It's activities are equally interesting for the members of all karst commissions and I would suggest the SRECH to become a permanent Working Group of the UIS, as Volcanic caves, etc.

Y. Shopov

International Programme *Luminescence of Cave Minerals* of the UIS commission of Physical Chemistry and Hydrogeology of Karst

The International Programme *Luminescence of Cave Minerals* (IPLCM) of the UIS commission of Physical Chemistry and Hydrogeology of Karst has been started in early 1988 and was presumed to be finished before the XI Speleological Congress with printing of the book *Luminescence of Cave Minerals*. All laboratory measurements had to be done in the laboratories of Sofia University by the leader of the program. But the economic collapse of the socialistic countries cause destruction of this lab in the end of 1990. This cause bid difficulties and delay of the research. Prof. Derek Ford rescue the program in 1991, inviting its leader to build a luminescent microyontology (LLMZA) lab in McMaster. This caused a shift in the field of research of the Program, because no any spectroscopic equipment was available for the program any longer, but it was originally designed to be mainly spectroscopic program rather than LLMYA program.

In conclusion the IPLCM was very successful and produced significant contribution to the cave science and to ti's appreciation by other sciences.

It is recommended to polish the book *Luminescence of cave minerals* as soon as it will be ready in order to attract more participants in the program.

It is recommended to continue the program as long as it will collect all data necessary to produce a non-destructive diagnostic of cave minerals using their luminescence. When it will be completed a *Manual for diagnostic of Cave Minerals* can be published. The base of this manual will be the very sophisticated diagnostic system of CM, incorporated in a computer program for diagnostics. The computer program is already designed.

Yavor Shopov

Working Group Hydrothermal Karst

Short description of activities (after congress in Beijing)

* Detailed study on the problem: Hydrothermal karst environment (fluid inclusion, stable isotope and luminescence data) at McMaster University (D. Ford and Yu. Dublyansky).

* Participation at the Meeting: "Karst and Geomicrobiology" organized by Karst Water Institute, USA, Colorado Springs, February 1994. Finding the links between lowtemperature hydrothermal karst and biological activity in caves (D. Ford and Yu. Dublyanski).

* Extension of studies of hydrothermal karst in Hungary from Buda Hills to some other areas (Gerecse, Bükk, Aggtelek-Rudabanya). Field and laboratory studies (K. Takacs-Bolner, S. Kraus, Yu. Dublyanski, V. Reutsky).

* Continuation of laboratory studies on minerals (calcite and quartz) from N. Algeria (B. Collignon, Yu. Dublyanski).

* The project of the book *Hydrothermal Karst* has been prepared, discussed and approved (D. Ford, Yu. Dublyanski, P. Forti). The project was then revised by group members (K. Takacs-Bolner, S. Kraus, M.

Bakalowics, B. Collignon, M. Sass-Gustkiewicz, S. D_u_y_ski). P. Forti has started to search for funds and place for publication.

Plans:

* Continuation of detailed study on hydrothermal karst environment (D. Ford and Yu. Dublyanski).

* Preparation of Book on Hydrothermal Karst (all Group members and other members of the UIS).

Yuri Dublyansky

Rapport d'activites de la commission des speleo-secours

Durant l'année 1994, aucune réunion officielle de la CSS n'a été, pas plus que de réunions des membres du Bureau.

Les difficultés économiques ont réduit considérablement, souvent même supprimé partout dans le mode les subsides que les organismes officiels consentaient pour ce genre d'activités. De plus, les contacts avec certains pays de l'Est de l'Europe sont coupés.

Le travail de la Commission a donc été essentiellement administratif:

- échangé de correspondance, diffusion d'articles, d'informations, etc.
- lors du Congrès de la FFS à Orthez en 1994, qui était ouvert aux spéléologues étrangers une séance d'information et d'échange de vues s'est tenue. Au cours de celle-ci, A.Slagmolen, en tant que Président de la Commission, a fait appel à la collaboration de chacun. Suite à cette réunion, le Secrétaire Général de l'U.I.S., Pavel Bosák, lui a fait parvenir une série de noms et adresses.
- Un résumé de l'article du Docteur J.M.Ostemann concernant certaines maladies sévissant dans le sud-est asiatique et pouvant affecter les spéléologues se rendant dans ces régions, a été diffusé dans le Speleo Soccorso et le Cave Diving. Malheureusement, Alesion Fabbricatore ayant décidé de ne plus s'occuper à l'avenir de l'édition du Speleo Soccorso et sans nouvelles de son successeur à ce jour, nous ne savons pas si les colonnes de cette publication nous seront encore ouvertes.
- Un cours de sauvetage spéléo a été organisé en Espagne par le FEE à l'intention de stagiaires espagnols et latino-américains; A.Slagmolen a participé à cette manifestation.
- Lors d'un séjour en Pologne, A.Slagmolen a essayé de renouer les contacts avec la Fédération Spéléologie du pays et son organisation de secours, mais sans y parvenir.
- Une excellente collaboration s'est établie avec les responsables de la Commission Enseignement de l'UIS, ce qui permet une meilleure information mutuelle.

Projets pour 1995:

- Lors du Congrès National de la Société Spéléologique Suisse, les Commissions d'Enseignement et des Spéléo-Secours de l'U.I.S. établiront un briefing en commun.
- En septembre 1995, A.Slagmolen rendra visite à l'École de Spéléo-Secours de la Federación Espeleologica de l'America Latina y Caribe et assistera à la Rencontre Ibero-Américaine dans le cadre du 55ème anniversaire de la Sociedad Espeleologica de Cuba.

Enfin, rappelons que la Suisse a eu l'obligeance de prévoir un Symposium International de Spéléo-Secours lors du 12ème Congrès de l'U.I.S. à La Chaux-de-Fonds en 1997.

The new working group established

Karst Hydrogeology and Speleogenesis

During the International Symposium *Changing Karst Environments* held in Oxford-Huddersfield between September 13-26, 1994 it was informally discussed between several colleagues the need to establish new body within the UIS Department of Research, which will be dedicated to karst hydrogeology and speleogenesis. This body could be established as a working group within the existing Commission of Physics-Chemistry and Hydrogeology of Karst, or (preferably) as a separate commission. It seems that the Commission of Physics-Chemistry and Hydrogeology of Karst covers too

broad spectrum of topics, does not work effectively during last years and should be split into several bodies with clearly defined objectives and projects.

Proposals about new Commission was submitted for consideration by the UIS Bureau (Czech Republic, November, 1994) and for final approval by next UIS General Assembly (Switzerland, 1997). The UIS Bureau during 7 session in 1994 agreed with the establishment of the Working Group.

Aleksander Klimchouk

Proposal of new working groups

INVITATION

Numerous caves are found in Hungary which are situated under towns, cities, villages. This unusual connection between caves and urbanised areas rises a lot of special problems (e.g. environmental- and engineering ones, preservation of caves and monuments etc.). To solve efficiently questions, the Hungarian Speleological Society would like to set up a new professional forum, called

LEAGUE OF TOWNS ABOVE CAVES

which would offer consultations, publishing possibility to those people who are dealing with this problem.

First we are waiting for reports about caves connected with urbanised areas, different local problems, as well as ideas for further work of the organisation.

If you are interested in this program, please contact the
Hungarian Speleological Society, H-Budapest, Fő u.68, Hungary.

Karst/Cave list - servers and newsgroup - proposals

Prepared by Alexander Klimchouk and Pavel Gulchouk, Kiev, Ukraine, shortened by Pavel Bosák

The set of list-servers is designed and proposed to serving international karst/cave related organisations. The main objective is to provide for an effective and prompt circulation of information between members of these organisations. All list-servers are maintained by the Ukrainian Speleological Association based in Kiev, Ukraine. The set co-ordinator - Alexander Klimchouk <klim@klim.carrier.kiev.ua>, the technical manager - Pavel Gulchouk <gul@lucky.carrier.kiev.ua>.

It is assumed that the suggested set of list-servers is supported by the following major karst/cave related international organisations: 1. The Union International of Speleology (UIS), 2. The Karst Commission of the International Association of Hydrogeologists (KCIAH), 3. The Karst Commission of the International Geographic Union (KCIIGU), 4. The International Geological Correlation Programs.

The set consist of four major specific list-servers, each to serving needs of a specific major organisation, certain number of specific list-servers to serving needs of internal bodies of these organisations, and one general list-server intended to circulate information of general interest between members of all these organisations and bodies.

In addition, specific list-servers can be set up to serving needs of internal bodies of the major organisations, like commissions, working groups etc. To avoid the great concentration of traffic at one place, it is recommended that specific list-servers are set up, if necessary, elsewhere by officers of such bodies, but interacted with the list-servers established in Kiev. For instance, the UIS Informatic Commission is setting up a WWW server for the Commissions needs; for details contact Peter Matthews <matthews@geography.unimelb.edu.au>.

Lists of persons admitted to specific list-servers are to be provided, and updated when necessary, to Alexander Klimchouk <klim@klim.carrier.kiev.ua> by presidents of relevant organisations.

All kinds of information concerning current activity of relevant organisation can be distributed through a list-server, very much like through circular letters, newsletters or bulletins which had been issued before in the paper form. But organised communication through computer networks implies considerable reduction of printing and mailing costs, drastic reduction of distribution time, as well as allows prompt reaction, comments and additions from members.

All information to be distributed through list-servers must be in form of text files (ASCII format). Files more than 10-20 KB in volume should be compressed with ARJ or PKZIP. Distribution of compressed files through the network is supposed in UNCODE; all people concerned are invited to advise if this program is available in their terminal software).

All expenses related to hardware, software, technical management and maintenance of the proposed set of list-servers will be sponsored by the Ukrainian Speleological Association and "Mercury" company (Kiev). The main problem remain the traffic costs (currently - \$ US 0.05 per KB) which are preliminary estimated in \$ US 300 a month for suggested set of list-servers and supposed full-size traffic. One way to reduce these costs is to transform the GENERAL_KARST server, into a newsgroup which could be subscribed by users through the Internet and local networks (see below). Traffic costs for remaining list-servers is supposed to be about \$ US 170 a month (about \$ US 2000 a year) which does not seem very high for four international organisations, taking into account considerable reduction of their expenses on printing and distribution of paper documents.

Karst/Cave Newsgroup

It is suggested to set up a special newsgroup within the world-wide computer networks to serving information and communication needs of karst and cave scientists and experts. Such a newsgroup could have two major objectives:

- 1) to provide for distribution of information and for communication between members of above listed international karst/cave related organisations and other interested persons.
- 2) to provide bibliography service on karst/cave related subjects.

The full text is available on E-mail address mentioned or in the UIS Secretary General.

News from karst related societies

Pacific Basin Speleological Survey

Between 1983 and 1986, inventories and extensive field work were carried out in Micronesia to investigate the cave and karst resources of the islands, the primary objective of the project. The inventories relied heavily on both on-site field work and extensive literature searches. Key elements of the inventory include:

1. compile a catalog of the caves, arches, springs, and other karstic and pseudokarstic phenomena present in the islands,
2. provide a folio of maps of the selection of the significant caves, arches, etc., in the inventoried areas,
3. record the presence of pre-European artifacts and other archeological material in the sites inventoried,
4. record the historic features present in the caves, etc., of the islands, with special emphasis on relics of the post-Spanish regimes,
5. collect as many pertinent oral history traditions relating to caves as possible,
6. outline the geologic development of the islands with emphasis on those portions which contain the present karstic and pseudokarstic areas,
7. provide a preliminary discussion of the development of the various karstic and pseudokarstic elements observed in the islands, and
8. highlight those features of geologic, archeologic, and historic importance which deserve special attention, either through field study or by possible inclusion as units of a National Park System.

Publication of the results of these surveys appeared in 1992 in the *Bulletin* series of the Pacific Basin Speleological Survey:

Bulletin 1: Karst features of Pohn Pei, Chuuk, and Waqab, Federated States of Micronesia (16 pages, more than 24 features inventoried)

Bulletin 2: Karst features of Saipan, CNMI (26 pages, nearly 80 features inventoried)

Bulletin 3: Karst features of the Palau Islands (133 pages, more than 680 features inventoried)

Bulletin 4: Karst features of Rota (Luta) Island, CNMI (20 pages, nearly 40 features inventoried)

Bulletin 5: Karst features of the Territory of Guam (33 pages, 104 features inventoried)

Each *Bulletin* has a short list of pertinent references. All five of these are now bound as a single volume are available for US\$30 (Golden Gate GeoGraphics, 37899 Los Arboles Drive, Fremont, California 94536, USA)

Management of this project was provided by Bruce W. Rogers and Charmaine J. Legge, Principal Investigators, Pacific Basin Speleological Survey, National Speleological Society.

(from Pacific Sci. Assoc. Inform. Bull., April, June 1994, Honolulu, Hawaii)

Motion decided by the International Commission for the Protection of Alpine Regions (CIPRA) in favour of the creation of an International Karst Park on the Italian-Slovenian Border

Resolution 1/1994

verabschiedet von der Delegiertenversammlung der International Alpenschutzkommission CIPRA anlässlich ihrer Jahreskonferenz 1994 in Belluno/Veneto für einen.

Internationalen Park in Karst

zum Schutzy und zur umweltverträglichen Entwicklung im grenzüberschreitenden Karstgebiet, abgegrenzt durch die Adria im Südwesten und durch die Flüsse Rosanda/Glinš_ica im Südosten, Vipacco/Vipava im Nordosten und Isonzo/So_a im Nordwesten.

Das sich genzüberschreitend zwischen der Autonomen Region Friaul-Julisch Venetien und der Republik Slowenien erstreckende Karstgebiet besitzt einmalige ober- und unterirdisch Naturwerte, herausragende hydrologische, landschaftliche, kulturelle und historische Besonderheiten und eine wichtige Funktion zur Trinkeasserversorgung, deren Schutz und Erhaltung ein vordringliches Ziel darstellen. Aus diesem Grund sind bereits mehrere wertvolle kleine Teile dieses Gebietes auf Initiative der betroffenen Gemeinden unter Schutz gestellt worden. Auf slowenischer Seite wurden die Grotten Skocjanske jame von der UNESCO in die Liste der Welt-Natur-Denkmäler aufgenommen.

Im Sinne einer ganzheitlichen Politik zum Schutz und zur umweltverträglichen Entwicklung des Karstgebietes sind jedoch zusätzliche Massnahmen notwendig. Mehrere slowenische und italienische Organisationen des betroffenen Gebietes arbeiten bereits in enger Abstimmung untereinander und in direktem Kontakt mit der betroffenen Bevölkerung für die Einrichtung eines Internationalen Parks im Karst. Beim italienischen Umweltministerium wurde bereits ein formeller Antrag auf Einrichtung eines Schutzgebietes hinterlegt. In der Autonomen Region Friaul-Julisch Venetien sind darüber hinaus mehrere Gesetzesvorschläge für die Einrichtung eines Regional-Parks eingereicht worden.

Die CIPRA

1) begrüsst und unterstützt mit grosser Überzeugung die Idee eines genzüberschreitenden Parks im slowenisch-italienischen Karst, auch als wichtigen Beitrag zum Ausbau der nachbarschaftlichen Beziehungen und des genzüberschreitenden Dialoges,

2) würdigt sie als beispielhaft für die Verwirklichung eines der Ziele der Alpenkonvention, einen genzüberschreitenden Verbund repräaentativer Natur- und Kulturlandschaften zu schaffen,

3) anerkennt sie als bedeutsam für die Schaffung grenzüberschreitend abgestimmter

Rahmenbedingungen für umweltverträgliche Entwicklungs- und Schutzmassnahmen.

Die CIPRA fordert die zuständigen Regional- und Staatsregierungen auf, in enger Zusammenarbeit mit den betroffenen lokalen Gebietskörperschaften, alle notwendigen Schritte zu unternehmen, um dieses Projekt zu verwirklichen und im Alpenbogen einen weiteren grenzüberschreitenden Park zu schaffen, der eine der interessantesten Natur- und Kulturlandschaften Mitteleuropas dauerhaft erhält.

(from CIPRA INFO, 36, 1994)

News from Member Countries

South Africa

All exchange publications intended for the S.A. Spelaeological Association should be sent directly to the library: S.A. Spelaeological Association, c/o Periodicals Department, J.W. Jagger Library, University of Cape Town, Rondebosch 7700, South Africa.

All other correspondence should be addressed to: S.A. Spelaeological Association, P.O. Box 4812, Cape Town 8000, South Africa.

Stephen Adrian Craven

Namibia

At present there is no active speleological club or society in Namibia, except for a loose association of scientists (albeit with a constitution) called SWAKNO (Karst research (*navorsings*) organization for southwestern Africa). There is no national organization. I am aware that the defunct Höhlenforschungsverein, an interest group of the Namibia Scientific Society (Windhoek-based local society), used to be accredited to the UIS, and presumed that the International Union of Speleology (UIS) was still in contact with that society. SWAKNO has been active since 1987, and is conducting and facilitating specialist investigations of Namibian caves, the results of which has been published in various scientific journals, as well in the speleological journal SASA Bulletin (Bulletin of the South African Spelaeological Association). At present local and foreign speleological enquiries and research are facilitated through the National Museum of Namibia, mainly due to active scientific interest of Museum staff. In general scientific and sporting interest in caving/speleology within Namibia (a country with 1.5 million people spread over 800 000 km²) is too limited to justify a national organization, while district interest is too fractured to successfully establish strong local clubs. Namibian caving interest will probably continue well into the future due to the number and extent of caves, but the abovementioned limitations is likely to prevent a strong and unified local body to be established in the near future. However, local groupings (e.g. the Höhlenforschungsverein [1963-1972] and SWAKO [1987-?]) is most likely to form in the interim around individuals with a strong caving/speleological interest.

(from the letter of E. Marais to the UIS Secretary General)

The Netherlands

The Netherlands consists for 98% of Pleistocene and Holocene sediments: gravel, sand, clay and bog. A large part is formed by "polders" or diked land. In two rather small areas we find older rocks and even some karst: the area around Winterswijk and the southern part of the province of Limburg.

Near Winterswijk is a large Triassic Muschelkalk limestone quarry. Here in 1942 an area of about 500 square meters of karren or lapies was discovered when the top soil of pleistocene clays was removed. Unfortunately this layer could not be preserved, because the limestone was quarried away. No limestone pavements were ever discovered here again.

The most southern part of the province of Limburg consists for a large part of cretaceous "marl",

(limestone in fact since it contains only 2% of clay). It is rather soft and can therefore be quarried away easily. This has been done since Roman times in large underground quarries. In this area these underground quarries are called "marl caves" - in fact a name two times wrong. The limestone was until very recently used as stone blocks for bulding purposes, in cement industry, and for "fertilizing" acid agricultural fields. In that way large underground systems were formed, with long rectangular passages. Where these galleries meet more or less large rooms arise. Pillars have to be left for the sake of support of the ceiling. The underground systems are rather complex. The so-called Sint Pietersberg caves are about 100 km in length and in the entire area there are about 170 of these artificial caves, with a total length of 160 km.

The caves are of dual importance: since many centuries the caves were visited by all kind of people. These visitors left their pictures and texts, sometimes dated, on the walls. These markings nowadays form the object of thorough historical investigation. And for biospeleologists the caves form a large and interesting area of research. Although no troglobionts are found, large numbers of other cave dwelling animals can be studied. For example, 12 out of 19 species of bats familiar in Holland roost or hibernate here in these artificial caves. For one reason, because like in natural caves the climatic conditions are very stable.

In this limestone area several karstphenomena can be seen:

- * *Geological organ pipes* - filled-in karst pits, dolines or sink holes several tens of meters deep, and sometimes with a shown connection with the subterranean galleries.
- * On the surface we encounter dolines.
- * Underground we find natural cave passages, sometimes partially filled in, and also accessible natural spaces, although not very large in diameter. The longest natural cave passage known at the moment has a length of 70 meters.

These are not well studied until now, but they propably originated where a fault and beddingplane met (through mixing corrosion perhaps) and then mounted through repeatedly collapse of the ceiling. The floor, through that, is always composed of a thick layer of loose, sandlike limestone particles. A solid floor is not yet found.

Only the karst passages interconnected with the artificial galleries were discovered. Outside, in the open air, no sings of natural caves were found until now.

There is a lot of natural breakdown in the underground quarries. This make the underground quarries in some places very instable and therefore dangerous. There is also a vety real danger of getting lost in these complex systems. As a consequence it is difficult to get permission to enter them. Soma safe parts, however, can be visited with a guide like a show cave. The greatest threat to the underground systems however, with all their biological, geological and historical values, are the limestone quarrying.

Hermann W. de Swart
Jan Paul van der Pas

OBITUARIES

Paul FENELON (1903-1993)

Le Professeur Paul FENELON s'est éteint le 19 décembre 1993. Tous les karstologues connaissent son rôle dans la promotion des recherches en Géomorphologie karstique, en tant que fondateur de la Commission des Phénomènes karstiques du Comité National de Géographie. Pour les jeunes, je retracerai brièvement sa carrière...assez semblable à celle de nombreux géographes, pris dès le plus jeune âge par l'étude de leur pays natal. P.FENELON est né à Trémolat, charmante bourgade du Périgord, dans un magnifique méandre de la Dordogne: le "Cingle". Il suivit la filière usuelle de promotion des enfants des sables: Ecole primaire supérieure de Sainte-Foy la Grande, Ecole Normale de Périgueux. Maître d'école à vingt ans, à Mouzens, puis à l'Ecole primaire supérieure de Belvès, et attiré par la compréhension de ce Périgord qu'il connaissait déjà bien, il entreprend (tout en enseignant) des études de Géographie à Bordeaux sous la direction du très rigoureux P.CAMENA d'ALMEIDA, dont il aimait évoquer le souvenir.

Les recherches de P.FENELON se partagent entre la Géographie rurale, spécialement du Sud-Ouest de la France et des Pays de Loire, et la Géomorphologie karstique. C'est au titre de cette dernière qu'il est amené à créer en 1960 la Commission des Phénomènes Karstiques du Comité National de Géographie. Les premières réunions permettent de faire un inventaire des recherches en cours, de discuter les termes d'un Vocabulaire et les signes d'une légende pour des cartes détaillées: avec des articles-tests. Ces travaux aboutirent en 1968 à un premier recueil *Phénomènes karstiques - I* publié dans Mémoires et Documents du CNRS, un second suivra en 1975. Grâce à l'impulsion de son Président et à l'aide qu'il obtient du CNRS et des Universités, la Commission organise des rencontres, en Languedoc-Provence (1968), les Grands Cousses, en Quercy-Perigord (1971), dans les Pyrénées occidentales et en région Cantabrique (1973), et la première Table-Ronde internationale, Nice-Verona (1977).

Jean Nicod

Marjorie SWEETING (1920-1994)

It is with great regret that we report the passing of the doyenne of British speleology and karstology at the end of December 1994. She was aged 75.

Marjorie Mary Sweeting was born at Fulham, London, on 28th February 1920. She was educated at Putney Girls School, London, and at Newnham College, Cambridge (1938-1942) where she was College Prizewinner in 1939 and was awarded the Mary Ewart Scholarship in 1940. She returned to Cambridge after the War and started her Ph.D. in karst studies with field work in the Yorkshire Dales. She was a founder-member of the Cambridge University Caving Club, and later its President. She was also President of the Cambridge University Women's Boat Club and of the Sedgwick Club.

Marjorie left Cambridge for Oxford in 1951 on appointment as a Lecturer in Geography at St Hugh's College. She spent the rest of her professional life at Oxford University. She became a Fellow of St Hugh's College, and was successively University Lecturer, Senior Tutor and Dean.

Marjorie Sweeting gained awards and medals from many institutions.

Marjorie was much involved in caving. She was among the early explorers of Disappointment Pot, as noted in the book *Underground Adventure* by A.Gemmel and J.Myers. Marjorie and her father had a second home at Litton in the Yorkshire Dales and it gave her a base for her pioneer studies on Ingleborough's pavements, erosion surfaces and cave levels (*Geographical Journal* 1950). With her father she studied the relationship of solution rates to limestone textures and lithology. Her description of the Yorkshire Dales area established it as classic galciokarst and many others have followed her lead in this field. Her overseas work on karst landscapes was equally pioneering, in particular the research on the cockpit karst of Jamaica. Other research followed in Yugoslavia, Belize, Australia, Java and Greece (water-supply investigations for the U.N.Food and Agriculture Organization in the latter). She was involved in the early planning for karst studies at Mulu in Sarawak, going there briefly with Oxford

students.

Much of Marjorie's speleological and karstic research has been published in a long series of papers and articles; perhaps her best known work is her book *Karst Landforms* (Macmillan, 1972). She also compiled and edited the Benchmark Book on *Karst geomorphology* (1981).

Trevor D. Ford

Vladimir KISSELJOV

Vladimir died while diving a sump in Pinega (North Russian region) on March 8, 1995. His body was recovered with many complications and was buried on March 14, 1995 in Moscow.

Alexander Klimchouk

NEW BOOKS

Adolfo Eraso, Marian Pulina (1992): Cuevas en hielo y ríos bajo los gracières. - McGraw-Hill: 1-242 pp. Madrid.

The book presents the new study approach of the formation and evolution of the glacier caves as well as the circulation of the rivers inside the glaciers, from a karstological point of view as analogies between caves and glaciers. There are presented examples from Antarctica, Greenland, Ellesmere, Patagonia, Siberia and Svalbard, and from mountain glaciers. Some of the phenomena observed in the regions mentioned contradict certain hypothesis commonly accepted in classical glaciology and, in other cases, the observed phenomena have got a more coherent explanation when applying them karstology points of view.

The book presents a complete bibliography with 286 works references of which 191 are directly in relation with the described themes and indirectly, the other 95 ones.

The first chapter collects especially the principle of the convergence of forms and the terminology. Physical processes in glaciers are reviewed in the chapter two. Chapter three shows the importance of the cryo-chemical process, and develops the thermodynamic bases. Chapter four describes the cryo-karstic morphology in glaciers, exokarstic forms, ablation forms as well as their analogies with the superficial forms of classical karst. Chapter five summarizes endokarstic forms. Chapter six refers to the karstic hydrogeology of glaciers and to the aquifer features of the glaciers. Chapter seven comments glaciokarst and the interconnection karst and glacier.

Adolfo Eraso

Comptes Rendus du Colloque International de Karstologie a Luxembourg (R. Maquil, F. Massen, Éd.), Publ.Serv.Géol.Luxembourg, XXVII, Luxembourg 1994: 1-195 pp.

The Karstological symposium was held on August 25-26, 1992 after the European Regional Speleological Conference in Belgium. Briefly informs on the karst environment of Luxembourg especially focused on the Moestroff Cave and its environs in which the PHYMOES Projects has been taking place. Hydrogeological part of the proceedings summarizes 8 contributions and speleoclimatic one 6 reports.

PB

Conference on the Karst and Cave Research Activities and Research Institutions in Hungary (L. Zámbo, M. Veress, Éd.), Berszenyi College, Szombathely 1994, Hungary: 1-155pp.

The Conference was held on May 17-19, 1993 in Jósvalő. Totally 18 contributions dealing with paleokarst, stable isotopes, karst geology and geomorphology, hydrochemistry, speleoclimatics etc. are summarized in full English text.

PB

Stephen Adrian Craven: Management Problems At Cango Cave, Bull.South.Afr.Speleol.Assoc., Vol. 34, Spec.Issue, Cape Town 1994: 1-136 pp.

Outstanding PhD Thesis deals with the management problems at Cango Cave in Oudtshoorn District of the Cape Province in the South Africa. In the time span of 1780-1992 there are collected all data available concerning the cave and its opening to public. Clearly demonstrates the change from the State Management to Local Management with privatization of some sectors. Since the change in 1986 the Cave suffers by the lack of finances and investments which are using to other purposes. Publication is available: Dr. S.A. Craven, 301 Huis Vincent, Wynberg Mews, Ebenezer Rd., Wynberg 7800, South Africa (only 10.00 GBP for mail).

PB

Proceedings of the European Conference on Speleology, Vol 1: 1-187 pp., Vol. 2: 1-184 pp., Belgium 1993 and 1994.

The Proceedings are edited in two volumes. Volume 1 deals with biology, paleontology, archeology, and human and applied speleology (25 papers) and is completed by the news of some of the UIS Commissions. Volume 2 published as Bull.Soc.Geogr.Liège, vol. 29, 1993 summarized contributions from the field of physical speleology and karstology (28 papers). The Proceedings were published by Federation Nationale Belge de Speleologie.

PB

Philippe Audra: Karsts Alpin. Genéze de grands réseaux souterrains, Karstologia, Mém. no. 5, 1994: 1-288 pp.

The Doctor Thesis deals with alpine karsts on case studies from Austria and France and summarizes development of great karst systems. The book is possible to order from: Philippe Audra, 28 rue du Priou, F-38180 Seyssins, France (220 FRF and 40 FRF mail).

PB

Encyclopaedia Biospeleologica, Vol. I. (Ch. Joubertie et V. Decu, Éd.), Société de Biospéléologie: 1-846 pp., 18 plates, Moulis 1994.

The Encyclopedia of biospeleology is a great effort consisting of general introduction, systematic part and regional descriptions of individual countries. About 103 contributions are dealing with subterranean fauna and flora of America and Europe. It represents first published world review on this topics. The book is possible to order from: *Société de Biospéléologie*, Laboratoire souterrain, F-09200 Moulis, France (500 FRF and 42 FRF mail in Europe).

PB

Editor: Dr. Pavel Bosák, the Secretary General of the International Union of Speleology
c/o Czech Speleological Society
Kališnická 4 - 6
CZ-130 00 Praha 3
Czech Republic

Published by the
Publishing House "Zlatý Kůň",
(P.O.Box 8, Kaprova 12,
CZ-11001 Praha, Czech Republic)

SPELEOLOGICAL EVENTS IN 1995 (For event in the U.S.A. see kindly the Calendar in each number of the NSS News)

I	1st Ibero-American Meeting of Speleology and 55th Anniversary of the Cuban Speleological Society	1995 01-17 - 01-23	Matanzas Province, Cuba	Cuban Speleological Society	Prof.Dr. Antonio Nunez Jimenez, Comite Organizador, Ave.9na#8402, esq.a 84, Playa, Ciudad de la Habana, CP 11600 Cuba f.: (537)33-0438
I	International Symposium- Show Caves and Environmental Monitoring	1995 03-24 - 03-26	Grotta di Bossea, Frabosa Soprana (Cuneo), Italia	Administration de la Grotte de Bossea, Section de Cuneo du C.A.I.	Dr. Francesco Vittone Via del Gavotto, 8 I-12016 Peveragno (CN) Italy t.: 0039-171-383444
N	Speleomiting	1995 03-25 - 03-26	Svit, Slovakia	Slovak Speleological Society	Slovak Speleological Society, Hod_ova 11, 031 01 Liptovský Mikuláš, Slovakia
I	5th Conference on sinkholes and the engineering/environmental impacts on karst	1995 04-02 - 04-05	Gatlinburg, TN, USA		B.F.Beck, P.E.LaMoreau and Associates, Inc., Box 4412, Oak Ridge, TN 37831/4412, USA
N	XVIe Festival national de Spéléologie, Science, art, passion	1995 04-06 - 04-09	Calimanesti, Judetul Vâlcea	Romanian Speleological Federation	Ghita Procopie, str. Avramescu no. 5, bloc P, ap. 4, RO-1000 Râmnicu - Vâlcea, Romania
N	Cave Rescue Operations and Management - Levels I to IV	1995 04-08 - 04-16	Aguadilla, Puerto Rico	Carribbean Region of the National Cave Rescue Commission of the NSS	Mimi Ortiz, t.: (809)756-6329 (809)751-9647 f.: (809)250-1998 NCRC Seminar, El Monte Sur G-711, Hato Rey, PR 00918
I	1995 EUG VIII biennial meeting	1995 04-09 - 04-13	Strasbourg, France	European Union of Geosciences	EUG VIII, E.O.P.G., 5 rue Rene Descartes, Strasbourg Cedex 67084, France
N	37. Tagung der Hugo Obermaier-Gesellschaft	1995 04-18 - 04-22	Mannheim, Germany	Hugo Obermaier-Gesellschaft, Erlangen, Germany	Hugo Obermaier-Gesellschaft, Kochstrasse 4, D-91054 Erlangen, Germany
N	Speleofórum'95	1995 04-21 - 04-23	Rudice, Moravian Karst	Czech Speleological Society	Czech Speleological Society, Kališnická 4-6, CZ-130 00 Praha, Czech Republic, f.: 0042-2-272460 fee: 300 CZK
N	Jahrestagung des Verbandes der deutschen	1995 04-27	Letmathe, Iserlohn,	Spelaeogruppe Letmathe	Stefan Niggemann, Spelaeogruppe Letmathe,

	Höhlen- und Karstforscher	- 04-30	Dechenhöhle, Germany		Dechnehöhle 5, D-58644 Iserlohn, Germany, f.: 0049-2374-71421
I	1° Congrès franco-belge de spéléologie	1995 04-29 - 04-30	Grandpré, Ardennes françaises	FFS, France	Alain Poix, Congrès spéleo, 106 rue Voltaire, F-59150 Watrelos, France
I	I Certamen internacional fotografie espeleologica	1995 05-05 - 05-16	Medina de Pomar, Spain	Grupo Espeleológico Merindales	Grupo Espeleológico Merindales, Avda. José Antonio, 2-1°B, E-09500 Medina de Pomar, Spain
N	IX° Rassemblement national des sections spéléologiques du Club Alpin Français	4995 05-25 - 05-28	La Chapelle- en-Vercors, Drôme, France	CAF, Section Grenoble	Section Grenoble C.A.F., Christian Lefoulon, t.: 78.48.59.76
I	XIIIth International Symposium - Theoretical and Applied Karstology	1995 05-26 - 05-30	Cluj-Napoca, Romania	Emil Racovi_ř Speleological Institute, Prospec_iuni A.A., Natl.Club of Tourism for Youth	Ioan, Povara, Emil Racovi_ř Speleological Institute, str. Frumoaša 11, RO-78114 Bucuresti 12, Romania t.: 0040-1-650.34.65, f.: 0040-1-2113874
I	Dreieck der Freundschaft mit Runder Tisch	1995 06-09 - 06-11	Schmautz, Jerischah st. 4, Slovenia		Prof.France Habe, Vojkova 2, SLO-66230 Postojna, Slovenia
N	XI° Rassemblement national de la FFS - La spéléologie: ř côté des "grands" karsts.	1995 06-04 - 06-06	Rouen, France	FFS	Pascal Vautier, 5-7 rue de l'Epée, BP 510, F-27505 Pont Audemer Cedex, France
I	Southeast Asia Conference on Geomorphology	1995 06-18 - 06-23	Singapore	Int.Assoc.Geomorphologists	Dr. GOH Kim Chuan, Division of Geography/NIE, Nanyang Technological University, 469 Bukit Timah Rd., Singapore 1025, f.: 65- 469-8433
I	3 rd International Karstological School Classical Karst - dolines	1995 06-27 - 06-30	Postojna, Slovenia	Speleol.Assoc. of Slovenia and Karst Res.Inst.	Karst Research Institute, Titov trg 2, SLO-66230 Postojna, Slovenia t.: 00368-67-24781 f.: 00386-67-23965 E-m.: izrk@zrc-sazu.si
N	1. Field Camp and School on Vertical Technique for Youth	1995 06-28 - 07-10	Chatyr Dagh Plateau, Crimea, Ukraine	Ukraine Speleol. Assoc.	Natalia Jablokova, P.O.Box 224/8, Kiev 30, 252030 Ukraine
N	NSS National Convention	1995 07-17 -	Blacksburg, Virginia, USA	The NSS	Carol Tiderman, 7600 Pindell School Rd., Fulton, MD 20759, USA,

		07-21			t.: (410)792-0742
N	XIII Congresso Brasileiro de Espeleologia	1995 07-27 - 07-29	Monte Si_o, MG, Brasil	Sociedade Brasileira de Espeleologia	Comiss_ o Organizadora do XIII CBE, Caixa Postal 56, CEP 37580-000 Monte Si_o, t.: (035)465-2041
N	Canyon School	1995 07-30 - 08-02	Cheile Galbenei	Romanian Speleol. Assoc. Canyon Commis.	Ioan Povara, Emil Racovi_ f Speleological Institute, str. Frumoasa 11, RO-78114 Bucuresti 12, Romania t.: 0040-1-650.34.65, f.: 0040-1-2113874
I	Regional Conference of Latin American and Carribean Countries - Latin America in the World: Environment, Society and Development	1995 07-31 - 08-05	La Habana, Cuba	International Geographical Union and Academy of Sciences of Cuba, etc.	Mrs.Zósima López Ruiz, P.C.O. International Conference Center, Palacio de las Convenciones, Apartado 16046, La Habana, Cuba
I	Excursion A15 Donau- Traverse Excursion A16 Mammal traverse International Union for Quaternary Research, XIV International Congress Excursion C5 Czech- Slovakian Traverse	1995 07-24 - 08-02 1995 07-25 - 08-02 1995 08-03 - 08-10 1995 08-11 - 08-20	Incl.visit of many cave sites in South Germany Stuttgart- Berlin Berlin, B.R.D. Incl. are karst and caves in the Moravian Karst	Internationale Quartär- Vereinigung	Congress Partner GmbH, Emmastrasse 220, D-28213 Bremen, B.R.D. Congress fees full mem.= 500 DEM accomp.m.= 200 DEM student m.=250 DEM exc.A15 = 1 200 DEM exc.A16 = 750 DEM exc.C5 = 1 800 DEM
I	Stage international :Perfectionnement technique et organisation d'une grande exploration"	1995 08-08 - 08-15	Reseau de Verneau, gîte du Lison, Doubs, France	FFS	Ecole française de spéléologie, FFS, 23 rue de Nuits, F-69004 Lyon, France
I	Preserving of pseudokarst caves (international working meeting)	1995 08-16 - 08-19	Rimavská Sobota (Slovakia) and Salgótarján (Hungary)	Slovak Evironmental Agency, National Par Bükk, MKBT	Slovak Environmental Agency, Správa CHKO Cerová vrchovina, Svätoplukova 40, SK-979 01 Rimavská Sobota, Slovakia

I	International Symposium on Souterrains	1995 08-19 - 09-25	Maastricht, The Netherlands	SOK Maastricht	Joep Orbons, P.O.Box 1614, NL-6201 BP Maastricht, The Netherlands, f.: 0031-43- 293072
I	International Speleology Camp	1995 08-19 - 08-27	Gârda, Romania	Focul Viu Bucharest, Cristal Oradea, SAS	Ioan Povara, Emil Racovi_ f Speleological Institute, str. Frumoasa 11, RO-78114 Bucuresti 12, Romania t.: 0040-1-650.34.65, f.: 0040-1-2113874
N	Jahrestagung des Verbandes österreichischer Höhlenforscher	1995 08-24 - 08-27	Bad Ischl, Austria	Verb.öster.Höhlenforsch.	Landesverein für Höhlenkunde in Oberösterreich, Landstrasse 31, Brieffach 10, A-4020 Linz, Austria
I	Rencontre internationale de chefs d'équipe Spéléo- Secours	1995 08-26 - 09-03	Saint-Martin- en-Vercors, France	FFS	Spéléo/Secours Français, Pierre Rias, F-26420 St- Martin-en-Vercors, France. t.: 0033- 75455169, f.: 0033- 75455339 2700 FRF
I	XII Colloque international de biospeleologie	1995 08-28 - 09-02	Moulis, France	CNRS, Socoiete de biospeleologie	Secrétariat du XII Colloque, Christian Juberthie, Laboratoire souterraine, F-09200 Moulis, France, t.: 0033- 61663126, f.: 0033- 61960851 registr. 500FRF accom. 200-500 FRF
N	4 čme Rassemblement des Speleologues Caussenards	1995 09-02 - 09-03	Aveze (Gard), France	Comité Départemental de Spéléologie du Gard, FFS	Richard Villemejeanne, Hameau de Cauvas, F- 30340 Salindres, France, t.: 66.85.85.96
I	International Conference: Karst-Fractured Aquifers - Vulnerability and Sustainability	1995 09-11 - 09-14	Katowice, Poland	Dept.of Hydrogeol. and Engng.Geol., Silesian University	Dr. Andrzej Witkowski, Department of Hydrogeology and Eng. Geology, Silesian University, B_dzi_ska 60, PL-41-200 Sosnowiec, Poland, t.: 0048-32- 662041, f.: 0048-32- 664351 fee: 125-300 USD
I	1. Encuentro Iberoamericano de Espeleologia - 55 Aniversario Sociedad	1995 09-11 -	La Habana, Cuba	Sociedad Espeleologica de Cuba	Dr. Antonio Nu_ ez Jiménez, Soc.Espeleo.Cuba, Ave 9na No 8402 esq 84, CP

	Espeleologica de Cuba	09-15			11300, Playa, Ciudad de la Habana, Cuba, t.: (537)22.5.25, f.: (537) 33.0438 fee: 45-80 USD
I	International Symposium on Karren Landforms	1995 09-19 - 09-22	Sóller, Mallorca, Spain	UIS, IGU, Direcció General d'Ordenació del Territori i Medi Ambient, FEE, FBE	A.Gines & J.J.Fornos MBCN/UIB, Departament de Ciències de la Terra, Universitat de les Illes Balears, Ctra. de Valldemossa, km 7.5, 07071 Palma De Mallorca, Spain f.: (34-9) 71173184 fee: 130-360 USD
N	5e Rencontre d'octobre (Thème "les concrétions")	1995 09-30 - 10-01	Orgnac, Ardèche, France	FFS	Spéléo Club de Paris, Club Alpin Français, 24 avenue de Laumière, F-758-019 Paris, France
N	10 ^e Congrès National de Spéléologie 10. Nationaler Kongress für Höhlenforschung	1995 10-06 - 10-08	Breitenbach (Solothurn), Schweiz	Société Suisse de Spéléologie Schweizerische Gesellschaft für Höhlenforschung	Thomas Bitterli, SGH Basel, Schönaustrasse 54, CH-4058 Basel, Switzerland
N	Karst and Caves, Research, Exploitation and Protection, Scientific Conference	1995 10-10 - 10-11	Liptovský Mikuláš, Slovakia	Slovak Museum of Nature Conservation and Caving	Slovak Museum of Nature Conservation and Caving, Školská ul. 4, SK-031 01 Liptovský Mikuláš, Slovakia, t.: 0042-849-22061 and 24559, f.: 0042-849-514381 fee: 250 Sk Crowns
I	International Symposium and Field Seminar- Karst Waters and Environmental Impacts	1995-10-10 - 10-20	Antalya, Turkey	International Reserach and Application Center for Karst Water Resources and Hacettepe University, etc.	Prof.Dr.Gültekin Günay, UKAM, Hacettepe University, TR-06532 Beytepe Ankara, Turkey, t.: 0090-312-2352543, f.: 0090-312-2352862
N	National Congress	1995 10-10 - 10-15	Suncuius, Romania	FRS	Ioan Povara, Emil Racoviță Speleological Institute, str. Frumoasa 11, RO-78114 Bucuresti 12, Romania t.: 0040-1-650.34.65, f.: 0040-1-2113874
N	I. Congreso sobre Picos de Europa	1995 10-12 - 10-15	Spain	Federación Asturiana de Espeleología	J.J. Gonzales, F.A.E, Apart Correos 540, E-33080 Oviedo, Spain
I	Congres International:	199	Toulouse,	Assoc.de géologues du Sud-	Francis Duranthon,

	Patrimoine Paleontologique, Patrimoine Archeologique: Protection et Mise en Valeur	10-18 - 10-20	France	Ouest	Muséum d'Histoire Naturelle, 35 allées Jules Guesde, F-31000 Toulouse, France, t.: 0033-61.52.00.14 fee: 200-400 FRF
N	Schauhöhlen - Höhlenschutz - Volksbildung (Seminar)	1995 10-20 - 10-22	Griffen (Kärnten), Austria	Verband österreichischer Höhlenforscher, Austria	Verband österreichischer Höhlenforscher, Obere Donaustrasse 97/1/61, A-1020 Wien, Austria
N	XII National Cave Management Symposium	1995 10-25 - 10-28	Spring Mill State Park, Mitchel, Indiana, USA	NSS	Spring Mill State Park Larry Mullins t.: 812-358-2675 Keith Dunlap t.: 317-882-5420
N	Workshop on Surveying of Maze Caves and Field Excursion	199 10-25 - 11-04	Podolia, Ukraine	Ukrainian Speleological Association	Dr. Alexander Klimchouk, Ukrainian Speleological Association, P.O.Box 224/8, Kiev 30, Ukraine 252030, t.-f.: 007-44-512.82.83, E-mail: klim@klim.carrier.kiev.ua
I	Casola '95 - Le Speleologie	1995 11-01 - 11-05	Casola Valsenio (RA), Italy		Casola'95, C.P.27/48010, Casola Valsenio (RA), Italy, t. and f.: (546)73033
I	XIV Festival Internacional de Cinema y Video Espeleológico de Barcelona	1995 november	Barcelona, Spain	Espeleo Club de Gracia	E.C.G., c/. Secretari Coloma, 3, E-08025 Barcelona, Spain
N	4th Annual Convention of the Ukrainian Speleological Association	1995 12-08 - 12-10	Kiev, Ukraine	USA, Kiev	Dr. Alexander Klimchouk, Ukrainian Speleological Association, P.O.Box 224/8, Kiev 30, Ukraine 252030, t.-f.: 007-44-512.82.83, E-mail: klim@klim.carrier.kiev.ua

SPELEOLOGICAL EVENTS IN 1996 AND 1997 (Preliminary List)

I	3rd Regional Geomorphological Conference	1996 04-09 - 04-21	Budapest, Veszprém, Hungary	Int.Assoc.Geomorphologists, Hung.Geogr.Soc.	Hungarian Geographical Society, Budapest, Hungary
N	NSS Convention	1996 08-3 - 08-09	Salida, Colorado, USA	NSS	Skip Withrow, 5404 South Walden St., Aurora, CO 80015, USA, t.: (303)693-0997
I	Pre-Congress karst excursions Nos. T107, 108, 114, 117 30th International Geological Congress Karst excursion No. 206 Post-Congress karst excursions Nos. 337, 342, 346, 347, 349	1996 07-27 - 08-03 1996 09-04 - 08-14 1996 08-10 - 08-11 1996 08-15 - 08-23	Beijing, China	International Union of Geological Sciences	Prof. Zhao Xun, Deputy Secretary General, P.O.Box 823, Beijing 100037, China, t.: 0086-10-8327772 and 8323188, f.: 0086-10-8328928, E-mail zhaox@bepc2.ihep.ac.cn, fees: 100-350 USD, karst excursions: 161-1578 USD without local transportation
I	28th International Geographical Congress: Land, Sea and the Human Effort incl. World Coastal Karst Environments Symposium	1996 08-05 - 08-10	The Hague, The Netherlands	IGU	Congress Secretariat, Faculty of Geographical Sciences, Utrecht University, P.O.Box 80115, NL-3508 TC Utrecht, The Netherlands, t.: 0031-30-532044, f.: 0031-30-540604
I	International Caving Conference: Discovering of New Caves and Cave Systems - Scientific and Applied Methods Excursions	1996 08-08 - 08-11 1996 08-12 - 08-15	Karlukovo, Bulgaria	Club Extreme and BFS	Bulgarian Federation of Speleology, 75 Vassil Levski Blvd., BG-1000 Sofia, t.+f.: 878812
I	VIIth European Bat Research Symposium	1996 08-12 -	Konigshof, Veldhoven, The		Peter Lina, 7th EBRs, c/o National Reference Centre of Nature

		08-16	Netherlands		Management, P.O.Box 30, NL-6700 AA Wageningen, The Netherlands, f.: 0031-8370-27561
I	4th International Symposium on Glacier Caves and Cryokarst in Polar and High Mountain Regions	1996 09-01 - 09-07	Alpinzentrum Rudolshütte, Uttendorf (Salzburg), Austria	Inr. Working Grp. Glacier Caves... UIS	Univ.Prof.Dr. Heinz Slupetzky, Institut für Geographie der Universität, Hellbrunnerstrasse 34/III, A-5020 Salzburg, Austria, f.: 0043-662-8044525
I	5. Pseudokarst Symposium	1996 09-19 - 09-22	Galyatető, Mátra Mts., Hungary	Vulkanoszepeológiai Kollektiva, MKBT, Hungary	Eszterhás István, Köztársaság u 157, H-8045 Isztimér, Hungary
I	Pre-Congres camps and scientific excursions Multimedia festival 12e Congrès International de Spéléologie UIS Commisson activities and specialized colloquia Post-Congres camps and scientific excursions	1997 07-27 - 08-09 1997 08-07 - 08-09 1997 08-10 - 08-16 1997 08-17 - 08-27 1997 08-17 - 08-27	La Chaux-de-Fonds Switzerland	Schweizerische Gesellschaft für Höhlenforschung	12e Congrès Internationale Case postal 4093 CH-2304 La Chaux-de-Fonds 4, Switzerland
I	4e Congrès de Géomorphologie	1997 08-28 - 09-03	Bologna, Italy		

Note: I - International event, R - Regional event, N - National event

IMPORTANT NOTE

to all organizers of the speleological events. The use of the name and/or logo of the International Speleological Union (UIS)

in the title or subtitle of the event brings some duties:
(1) the use of the name and/or logo have to be confirmed by some of the UIS Bureau members and
(2) the use of the name and/or logo is against the payment.
According to the motion of the Assembly General of the 9th International Congress of Speleology, Bowling Green, USA, July 22, 1981, point 4, the payment per capita in the UIS events are set **at 5% of the event registration fee, with a minimum of 3 USD** (see UIS Bull., 22, 1/2, p. 28).