

## Chronicle

compiled by

ZS. THURZÓ

### *Visiting Scientist*

14.07.2003. - Dr. Vivi VAJDA (Department of Geology, Lund University, Tornavägen 13, SE-223 63 Lund, Sweden) visited the laboratory. A joint research program was discussed on the combined study of Hungarian Upper Cretaceous sediments. Palynological researches were projected for the future



Photo 1.

Dr. Vivi VAJDA in the office of Prof. Dr. M. KEDVES. Picture was taken by Dr. É. SIPOS-KEDVES.

### *International Laboratory Activities and News*

January 16 - February 5, 2003, Birbal Sahni Institute of Palaeobotany, Lucknow, Uttar Pradesh, India.

Prof. Dr. M. KEDVES visited the Birbal Sahni Institute of Palaeobotany within the scientific exchange program between the Indian (INSA) and Hungarian (MTA) Academies. During his stay he worked with Dr. S.K.M. TRIPATHI and Dr. Madhav KUMAR on joint research programs. The following papers were finalized or are before completion:

1. SEM investigations on the partially degraded pollen grains of Family Malvaceae.
2. Effect of the C60 fullerene/benzol solution on the ultrastructure of the wall of *Cycas rumphii* pollen grains.
3. SEM and TEM investigations on partially degraded cuticles of *Cycas rumphii* MIQ.
4. Molecular system and symmetry operations on the highly organized biopolymer structures of the cuticles of *Cycas rumphii*.

Further joint programs were discussed and elaborated.



Photo 2.

From left to right: Dr. S.K.M. TRIPATHI, Scientist E, Prof. Dr. M. KEDVES, Dr. Madhav KUMAR, Scientist D in front of the Birbal Sahni Institute of Palaeobotany (Lucknow, Uttar Pradesh, India).

B.S.I.P. celebrated the 57th Anniversary of Republic Day on January 26, 2003. Director Prof. A.K. Sinha hosted national flag on the institute building. Dr. Jyotsna ROY delivered a speech to the memory of soldiers who sacrificed their lives for India's independence. Dr. Prof. A. K. SINHA highlighted the significance of this day and briefly talked about the diversity of culture in the Indian subcontinent. This small meeting was followed by a tea party in the garden of the institute.

September 1-4, Bordeaux, France XVIIIth Symposium of APLF. Organizing Committee: J.-L. TURON, F. EYNAUD, M.-F. SANCHEZ-GONI, L. LONDEIX, ST. DESPRAT and M.-H. CASTERA. On the 2nd September M. KEDVES delivered the following paper:

KEDVES, M., PÁRDUZ, Á., HALÁSZ, G., KOVÁCS, J. and THURZÓ, ZS.: L'importance de la solution de C60 fullerene/benzénique dans la dégradation partielle de l'ectexine de *Malva sylvestris*.

October 6-12. Madrid, Departamento de Paleontología, Universidad Complutense de Madrid, Facultad de Ciencias Geológicas, Ciudad Universitaria, Spain.

Prof. Dr. M. KEDVES as visiting scientist worked in the Department of Paleontology of the U.C.M. on the new joint research programs with Prof. Dr. C. ALVAREZ RAMIS and Dr. M.T. FERNÁNDEZ MARRÓN.

### *Hungarian Scientific Activities*

January 3, 2003 the 15th volume of *Plant Cell Biology and Development* was published. July 25, 2003 the monograph of the „Geonómia az ezredforduló után” was published by the Geonomical Subcommittee of the Hungarian Academy of Sciences. Responsible for publication: Béla NAGY, Editor: Endre DUDICH. Preface by György PANTÓ, member of the HUAC, President of the Section of Earth Sciences. Contributors: Ferenc BENKŐ, Szaniszló BÉRCZI, László CSEREPES, Zúárd DITRÓI PUSKÁS, Endre DUDICH, Erzsébet ILLÉS, Miklós KEDVES, Béla LUKÁCS, Teréz PÓKA and Gyula SZŐÖR. This volume was dedicated to the 100th Birth Anniversary of Prof. Dr. Elemér SZÁDECZKY-KARDOS who established Geonomy, an extremely multidisciplinary field of science and published several monographs concerning this subject.

August 16-22, 2003 Symmetry Festival was held in Budapest. Prof. Dr. M. KEDVES was the member of the Hungarian Advisory Board. His contribution “Symmetry of the biomacromolecules of the plant cell wall” was reported. For some unexpected reasons he could not present his contribution there. The abstract will be completed and published in the next volume of P.C.B.D.

### *Laboratory Meetings and News*

04.01.03. Presentation of the new (16th) volume of *Plant Cell Biology and Development*. Papers of the joint research programs with the Birbal Sahni Institute of Palaeobotany were discussed. Organization of the new volume of P.C.B.D.

18.02.03. Report from the achievements in the Birbal Sahni Institute of Palaeobotany. Organization of the research programs of the Laboratory. Projection of diapositives of spores, gymnosperm pollen grains and Lucknow (Cathedral Church, Hazrat Gunj).

01.03.03. Discussion and the redaction of the papers which are included in the 16th volume of P.C.B.D. Other actual businesses.

05.04.03. Problems of the Laboratory because of the new economic situation of our financial supporters. Redaction questions of the 16th volume of P.C.B.D.

03.05.03. Review the research programs of the Laboratory for this year considering the fact that the Grant OTKA T 31715 will be ended in 31 December of 2003. A new application was completed and presented to the Foundation of OTKA. The decision will be made probably in January or February, 2004. The research programs for the summer of this year.



Plate I.



Plate 2.

07.06.03. Projection of the volume 2005 of P.C.B.D. The contract with the Printer Office was concluded and the cover was also settled and printed. Manuscripts for this volume started to be collected.

21.08.03. The traditional exclusive reception was held in the Laboratory on the occasion that on the same day in 1990 the Rector of the University signed the establishment of our research unity.

25.08.03. Prof. Dr. R. MÉSZÁROS member of the Hungarian Academy of Sciences was awarded the Commemorative and the Centenary Medal of the Laboratory. As Dean of the Faculty of Science, later as Rector of the University he has always helped our Laboratory in every respect.

23.08.03. Overview of the current researches of the Laboratory, international joint research programs.

27.09.03. Report from the participation at the XVIIIth Symposium APLF held in Bordeaux. The current state of the 16th volume of PCBD. Actual businesses.

Projections: LM morphology and ultrastructure of the spores, recent and fossil.

25.10.03. About the final redaction of the 16<sup>th</sup> volume of P.C.B.D. Planning of the compilation of the next volume.

Projections: LM morphology and ultrastructure of the gymnosperm pollen grains. Actual problems.

29.11.03. Discussion and redaction of papers for the 17<sup>th</sup> volume of P.C.B.D. Discussion and international scientific contributions.

Projections: LM morphology and ultrastructure of the angiosperm pollen grains.

13.12.03. The scientific achievements of the Laboratory during this year. Presentation of the first (not bounded) copy of the 16th volume of Plant Cell Biology and Development. Discussion of the joint research programs with the B.S.I.P., Lucknow, India and the next ICP held in Granada, Spain.

Projections: Quasi-crystalloid organization in the plant cell wall.

### *Teaching Program of the Laboratory*

In the year 2003 the following lectures were delivered:

1. Applied Palynology, 2 + 2. 2. Biopolymer organization and symmetry, 2 + 0. 3. Theory of evolution and Natural Philosophy, 2 + 0. 4. Theory of the Supernova 2 + 0. 5. Basic Palynology, 2 + 2. 6. Quasi-crystalloid biopolymer structures 2 + 2.

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#### Plate 1.

1. J. KOVÁCS, 2. ZS. THURZÓ, 3. From left to right: J. KOVÁCS, ZS. THURZÓ, Prof. Dr. M. KEDVES and A. BORBOLA. 4. From left to right: A. BORBOLA, J. KOVÁCS and ZS. THURZÓ. 5. A. BORBOLA. Pictures were taken by Dr. É. SÍPOS-KEDVES.

#### Plate 2.

1,2. From left to right Prof. Dr. R. MÉSZÁROS member of the Hungarian Academy of Sciences and Prof. Dr. M. KEDVES in the office of the laboratory.

Award

Prof. Dr. M. KEDVES was awarded the medal of the International Scientist of the Year 2002 by the International Biographical Centre Cambridge, United Kingdom.

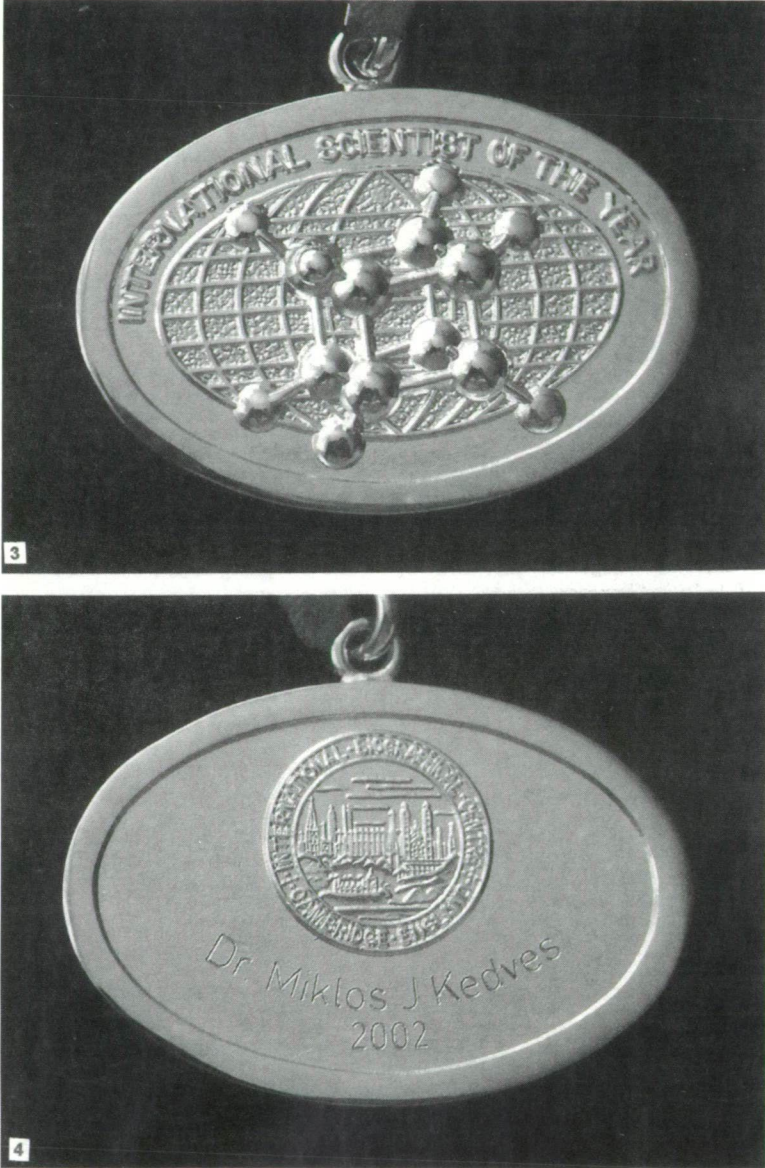


Photo 3,4.

Front and back picture of the medal. Pictures were taken by Dr. É. SIPOS-KEDVES.

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