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African studies in Hungary, overview of the professional career of Tamás Pócs, professor of botany, academician at the 80th Birthday, with a detailed bibliography of his works

AZ ELSŐ MAGYAR, SZABAD FELHASZNÁLÁSÚ, ELEKTRONIKUS,
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PROFESSOR TAMÁS PÓCS THE RECORD OF HIS 80 YEARS

SÁNDOR ORBÁN & ERIKA PÉNZES-KÓNYA

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The eminent Hungarian botanist and bryologist Professor Tamás Pócs was born in Budapest on 6 August 1933. He attended the Reformation Secondary School of Budapest, famous for its outstanding professors, and here his serious interest in botany began. At age 15 he became a member of the Hungarian Botanical Society. In 1951 he took part in the vegetation mapping course of the Hungarian Academy of Sciences in Vácátót.

In 1951 he applied to study biology and chemistry at Eötvös Loránd University, Budapest. In his second year of studies he entered a special botanical science course under Professor Rezső Soó, who invited Tamás to work in his Botany Department after graduation in January 1956. However, he chose the Herbarium of the Natural History Museum in Budapest as his place of work, and donated his plant collection consisting of 8,000 specimens to the Herbarium upon taking the job there.

He published his first paper in 1954, and co-wrote the manuscript of his first book in 1955, both while still a student. From 1955 on he explored botanically interesting areas of Transylvania and the southern Carpathians. He investigated the vegetation of western Hungary and, together with other young botanists, made vegetation maps of the area which were published as the book *Veg-etationsstudien in Őrség* in 1958. In 1959 he received his doctoral degree *summa cum laude*, and in 1967 achieved the title Candidate of Sciences (CSc), now PhD.

Keenly interested in educating others, he applied for the post of Head of the Department of

Botany of the Teachers' Training College in Eger in 1963. During his 18 years at that post, Professor Pócs he developed the department into a strong educational and research unit. His basic concept was to set up, with his colleagues, a research center attached to a cryptogam herbarium, which is now one of Central Europe's biggest herbaria, holding 250,000 specimens, mainly tropical bryophytes.

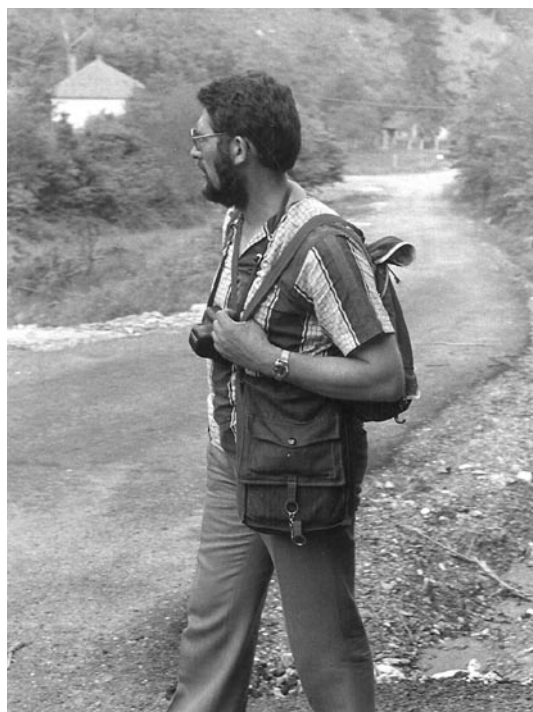


Fig. 1. Tamás Pócs, 1978. Photo J. Vána.



Fig. 2. Anna Medwecka-Kornaś and Tamás Pócs in the Tatra Mts, Poland, 1959 (courtesy of A. Medwecka-Kornaś).



Fig. 3. Jan Kornaś and Tamás Pócs in tropical forest at the foot of Uluguru Mts, Tanzania, 1973. Photo. A. Medwecka-Kornaś (courtesy of A. Medwecka-Kornaś).



Fig. 4. On an excursion after the 1st Central and East European Bryological Working Group (CEE BWG) meeting in Eger, Hungary, 1978 [from left: Sándor Orbán, Riclef Grolle (in wheelchair), Tamás Pócs, and S. Robbert Gradstein]. Photo J. Váňa.

Many Hungarian and foreign scientists visit the herbarium to examine its materials. Another important activity of the herbarium is exchange of specimens; the collection includes a wealth of specimens sent from places never visited by any Hungarian bryologists. The Department of Botany (now divided into the Department of Botany and the Department of Plant Physiology) employs the latest research methods to study the taxonomy, ecology and physiology of cryptogamic plants.

Professor Pócs interest turned to tropical botany early in his career. He went on an expedition to Vietnam lasting a month and a half in 1963, followed by a three-month expedition in 1965–1966. The richness and variety of tropical vegetation fascinated him and determined his further lines of research. His work in Vietnam added thousands of specimens to a number of Hungarian and foreign plant and animal collections.

These first tropical expeditions were followed by many other trips. His studies in Africa have occupied the longest period of his work. He has also visited Latin America and Asia, doing research or collecting plants and animals in about



Fig. 5. Tamás Pócs (right) and Ryszard Ochrya (left) during meeting in the W. Szafer Institute of Botany, Polish Academy of Sciences, Kraków, 1991 (photo from Erika Péntes-Kónya).



Fig. 6. Tamás Pócs and Gabriella Kis preparing bryophytes collected on the Isle of Réunion, 1996. Photo András Szabó (photo from Erika Péntes-Kónya).

25 tropical countries. Recently he studied Australia and Oceania. He has collected about 200,000 plant specimens and hundreds of animal samples, and has done forest ecology research and vegetation mapping. He has participated in numerous projects, including *Bryologia Africana*, *Bryoflora of Uganda*, *Flora of Brasil*, *Flora de Cuba*, *Flora Neotropica*, *Bryophytes West Melanesia*, and *Flora of Australia*. As a professor in Africa he took part in ecological, conservation and biodiversity studies of the Swedish Usambara Integrated Rain Forest Project and in the ecological monitoring program of the Ngorongoro Conservation area.

He was the first in the world to examine the correlation between epiphytic biomass and its water uptake capacity; the works reporting those results are among his most frequently cited publications. These quantitative studies showed that epiphytic biomass may reach 14 tons/ha and can take up 50,000 liters of water from rainfall and evaporate it slowly to the environment. This is much more than the water taken up by the whole canopy. It is supplemented by fog precipitation

in the cloud zone. These findings are of huge importance; they mean that epiphytic vegetation can regulate precipitation in the cloud zone of tropical watershed mountains, maintaining the continuity of flow to the water reservoir network through the year and thus maintaining the water supply in streams and rivers in the dry season, providing a stable source of water for consumption, irrigation and energy production.

There was a new challenge for him in Tanzania when an opening for foreign teachers was announced at the University of Tanzania. He landed the job and became Senior Lecturer in Crop Botany, a post he held for four years (1969–1973) as one of the founders of the Agricultural Faculty.

Returning to Eger, in addition to teaching he synthesized the results of his research in Tanzania and used this material to write his doctoral thesis, which was accepted in 1977. In 1978 he was invited to the Botanical Research Centre of the Hungarian Academy of Sciences in Vácrátót as head of the Botanical Garden and scientific advisor. During these years he had opportunities to

join expeditions to Cuba and to Tanzania where he took part in the Rain Forest Program within the framework of Swedish-Hungarian-Tanzanian cooperation.

In 1985 he was invited to the Department of Forest Biology of the Tanzanian University of Agriculture as Professor of Forest Biology, which title was conferred by the Norwegian government supporting the university. His Tanzanian research extended to all of northeast Tanzania. He became a consultant to the Norwegian Agency for Development Cooperation (NORAD), and the results of his research were published in a local publication of the WWF, co-authored with Jon Lovett.

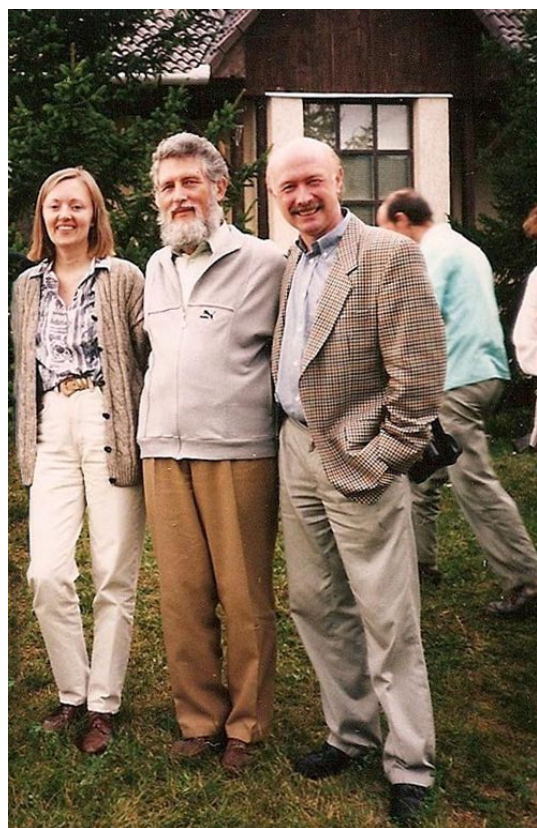


Fig. 7. International Association of Bryologists (IAB) meeting and International Conference on 'Follicolous Cryptogams' held in Eger, Hungary, 1995. Participants at Tamás Pócs' house in Felsőtárkány (from left: Andrea Lücking, Tamás Pócs, S. Robbert Gradstein. Photo: Sarolta Pócs (photo from Erika Péntes-Kónya).



Fig. 8. Tamás Pócs in the Dubai Desert, United Arab Emirates, 2009. Photo S. Pócs.

After returning from Tanzania (1989) he worked for two years in Vácrtót and then went to Eszterházy Károly College in Eger (1991) as a professor. He headed the Department of Botany and was also Vice President of the college for several years. In Eger he established the Bryological Research Group of the Hungarian Academy of Sciences and led it between 1999 and 2003.

During his years in Vácrtót he lectured at Eötvös Loránd University of Budapest (ELTE) and at the University of Agriculture in Gödöllő, and became a professor at Eötvös Loránd University. Recently he has been at Eszterházy Károly College as Professor Emeritus.

Professor Pócs became an external member of the Norwegian Academy of Sciences in 1992. He



Fig. 9. Sarolta Pócs, Tamás Pócs, and Masanobu Higuchi at reception held at Zhejiang University, Hangzhou, Zhejiang Province, China, 16 October 2010. Photo Qin Zuo (courtesy of Masanobu Higuchi).

was elected corresponding member of the Hungarian Academy of Sciences in 1995, and member in 2001.

Professor Pócs has always placed great stress on educating young talent, not only teaching undergraduate and postgraduate courses but also lecturing and leading special courses at different universities (Helsinki, Nairobi, Merida, Kuala Lumpur). He has advised 15 doctoral students, four of whom are professors now. He has been to 45 countries including Canada, Japan, Venezuela and Australia, mainly for collecting and research expeditions. There are former students of his in almost all of those countries.

His achievements include *ca* 400 publications (see BIBLIOGRAPHY OF TAMÁS PÓCS), about 3,000 citations, and lectures at 25 international congresses.

The taxa new for science which he described or diagnosed include 13 vascular plants, 204 bryophytes and one snail taxon. On the basis of materials

collected by Professor Pócs about 350 new taxa of vascular plants, bryophytes, lichens, fungi, snails, insects and acari have been described by other researches (see Orban 2003 and attached Lists). Many taxa bear his name, such as *Pocsia* Vežda (lichen), *Pocsiella* Bizot (bryophyte), *Pocsia* and *Pocsoppia* Mahunka (acari), genera new for science (see list).

Professor Pócs has received 11 high honors, among them the Szent-Györgyi Albert Prize (1996), the Pro Natura Prize (2001), the Szilárd Leó Scholarship (2003) and the Order of Merit of the Hungarian Republic, Officer's Cross (2010).

His service to international and Hungarian scientific societies includes being a founder member and Vice President of the International Association of Bryologists (1981–1987), President of the Hungarian Biological Society from 1991 to 1994, and President of the Botanical Committee of the Hungarian Academy of Sciences from 1993 to 1996. He was elected Honorary Vice President of



Fig. 10. Tamás Pócs in the field at Tianmushan, Linan County, Zhejiang Province, China, 19 October 2010. Photo M. Higuichi.

the XVI International Botanical Congress (1999, St. Louis, USA).

Twenty years ago Professor Tamás Pócs began to examine cryptobiotic layers, that is, vegetation patches formed by cyanobacteria, algae, bryophytes and lichens in extreme habitats (loess cliffs, desert vegetation, Antarctic rocks). The importance of these layers can be seen in their representation in the record of the earliest vegetation, which played an important role in the formation of an oxidative atmosphere. He joined a research project for Mars exploration; his task was to examine whether

a cryptobiotic layer could exist on the rocky surface of Mars. He lectured on the results of his research on cryptobiotic layers in 2001. His success in this new aspect of research can be seen in 48 publications about it. The year 2003 saw several publications recognizing his research in *Acta Academiae Pedagogicae Agriensis* in Hungarian (Fekete 2003; Orbán 2003; Varga 2003) and in *Acta Botanica Hungarica* in English (Orbán 2003). The latter contains the new taxa described up to 2002, taxa collected by Tamás Pócs but described by other researchers, and his publications up to 2003.

In this brief contribution it is not possible to convey the full picture of Tamás Pócs's enormous publication activity, and his passion for research, collecting and expedition organizing, pursued with youthful dynamism even during the past decade. Suffice it to say that Professor Pócs has published more than 150 works during the last ten years. An updated list of his publications can be found on the website of the Hungarian Academy of Sciences (<https://www.mta.hu>).

We wish Tamás good health, good cheer, and a lot of good results in determining his many recently collected samples.

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LIST OF NEW NAMES AND COMBINATIONS BY
TAMÁS PÓCS BETWEEN 2003 AND 2012¹

Marchantiophyta

- Aphanolejeunea azorica* (V. Allorge & Jovet-Ast) Bernecker & Pócs, Mem. New York Bot. Gard. **87**: 109. 2003.
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- Austrolejeunea hamata* (Grolle) Pócs, J. Hattori Bot. Lab. **99**: 186. 2006.
- Austrolejeunea occidentalis* Pócs, J. Hattori Bot. Lab. **99**: 187. 2006.
- Austrolejeunea papillosa* (D. Glenney) Pócs, J. Hattori Bot. Lab. **99**: 186. 2006.
- Austrolejeunea talynayi* (S. Arnell) Pócs, J. Hattori Bot. Lab. **99**: 187. 2006.
- Bazzania orbanii* Pócs, Acta Biol. Plant. Agriensis **1**: 16. 2011.
- Ceratolejeunea andringitiae* Pócs, Polish Bot. J. **56**(2): 144. 2011.
- Ceratolejeunea saroltae* Pócs, Polish Bot. J. **56**(2): 149. 2011.
- Cheilelejeunea streimannii* Pócs & Ninh, Acta Bot. Hung. **47**(1–2): 162. 2005.
- Cheilelejeunea ulugurica* Malombe, Eb. Fisch. & Pócs, Acta Biol. Plant. Agriensis **1**: 24. 2011.
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- Cololejeunea* (Spruce) Schiffn. subg. *Metzgeriopsis* Pócs, Acta Bryolichenol. Asiat. **4**: 106. 2011.
- Cololejeunea altimontana* Pócs, Acta Bryolichenol. Asiat. **4**: 78. 2011.
- Cololejeunea antillana* Pócs, Polish Bot. J. **54**(1): 3. 2009.
- Cololejeunea arfakiana* Pócs & J. Eggers, Polish Bot. J. **51**(2): 155. 2006.
- Cololejeunea berneckerae* Pócs, Polish Bot. J. **54**(1): 4. 2009.
- Cololejeunea bifalcala* Pócs, Acta Bot. Hung. **54**(1–2): 146. 2012.
- Cololejeunea blepharophylla* Pócs, Acta Bot. Hung. **54**(1–2): 149. 2012.
- Cololejeunea ciliata* Pócs, Acta Bryolichenol. Asiat. **4**: 83. 2011.
- Cololejeunea cingens* (Herz.) Bernecker & Pócs, Polish Bot. J. **54**(1): 4. 2009.
- Cololejeunea cornutissima* (R. M. Schust.) Pócs, Polish Bot. J. **54**(1): 4. 2009.
- Cololejeunea costaricensis* (Bernecker) Bernecker & Pócs, Polish Bot. J. **54**(1): 5. 2009.
- Cololejeunea crateris* Pócs, Acta Bot. Hung. **54**(1–2): 153. 2012.
- Cololejeunea cubensis* Pócs, Polish Bot. J. **54**(1): 5. 2009.
- Cololejeunea erostrata* (Herzog) Bernecker & Pócs, Polish Bot. J. **54**(1): 5. 2009.
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- Cololejeunea moralesiae* (Bernecker) Bernecker & Pócs, Polish Bot. J. **54**(1): 7. 2009.
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¹ Including earlier records not enumerated in Orbán (2003).

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- Cololejeunea saroltae* Pócs, Acta Bot. Hung. **54**(1–2): 160. 2012.
- Cololejeunea schmidtii* Steph. var. *acutepapillosa* Pócs, Acta Bot. Hung. **54**(1–2): 165. 2012.
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- Cololejeunea subalpina* Pócs, Acta Bryolichenol. Asiat. **4**: 98. 2011.
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NEW TAXA DEDICATED TO TAMÁS AND SAROLTA PÓCS BETWEEN 2003 AND 2012²

Lichenes (Lichenized Fungi)

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