



BALTICA Volume 22 Number 2 December 2009: 135-136

OBITUARY

Farewell to Professor Jaan-Mati Punning (1940-2009)



Jaan–Mati Punning. Family archive, 2005

Doctor Habilitus Jaan—Mati Punning, one of the most remarkable natural scientists and science managers in the Baltic States, Professor of Tallinn University, long-time president of the Estonian Geographical Society, passed away on November 21, 2009.

Jaan–Mati Punning was born on March 13, 1940, in Mooste in SE Estonia and graduated Tartu State University earning a speciality in chemistry. He started to work for the Institute of Zoology and Botany of the Academy of Sciences, followed by working in the Geological Survey and the Institute of Geology of the Academy of Sciences, where he participated in the development of the innovative radiocarbon dating method. In 1969 J.–M. Punning received a candidate of

sciences degree in the field of geology and mineralogy and shortly thereafter he established one of the leading isotope laboratories in the world at the Institute of Geology. He investigated the dynamics of glaciers in Svalbard and Pamir and Ural mountains. His doctoral dissertation on the dynamics of glaciation processes during the Late Pleistocene in Northern Eurasia was presented in 1982 and J.–M. Punning received a doctor's degree in the field of natural geography.

One of the most important accomplishments J.–M. Punning's career was the establishment of the Institute of Ecology at which he was the director between 1992 and 2005. In 1995 he received the Scientific Price of the Republic of Estonia. Prof. Punning was a generalist in many fields of bio–geosciences and environment, geography and regional studies. His latest research projects were connected with the lake–level fluctuations during the postglacial period, causes and impact on the lake ecosystems and formation of the bottom sediments of Lake Peipsi. Altogether he published more than 500 scientific papers.

He was the president of the Estonian Geographical Society since 1985. J.–M. Punning took an active role in the formation of scientific, educational and environmental policies in the Baltic States. He has earned a number of awards and merits, including the Estonian White Star Order. J.–M. Punning was a honorary member of Estonian and Russian geographical societies.

His initiative and energy was hard to keep up with. The faciliation of uncompromised science—based thinking, organizing and executing scientific work while neglecting personal interests were all conducted with an intense internal flare, which illuminated several generations of scientists and allowed them to set their own paths. We have lost one of our great natural scientists.

Tiiu Koff, Anto Raukas

ADDENDUM

List of selected publications of Prof. Jaan-Mati Punning

- Kangur, M., Koff, T., Punning, J.-M., Vainu, M., Vandel, E. 2009. Lithology and biostratigraphy of the Holocene sediment sequence in Lake Kūžu, Vidzeme Heights (Central Latvia). *Geological Quarterly* 53, 199-208.
- Punning, J.-M., Raukas, A., Terasmaa, J., Vaasma, T. 2009. Surface sediments of transboundary Lake Peipsi: composition, dynamics and role in matter cycling. *Environmental Geology* 57, 943-951.
- Koff, T., Punning, J.-M. 2008. Development of vegetation and human activities on the new emergent coastal areas of northwestern Estonia. *Annales Botanici Fennici* 45, 33-43.
- Punning, J.-M., Terasmaa, J., Vaasma, T., Kapanen, G. 2008. Historical changes in the concentrations of polycyclic aromatic hydrocarbons (PAHs) in Lake Peipsi. *Environ*mental Monitoring and Assessment 144, 131-141.
- Kangur, M., Kangur, K., Laugaste, R., Punning, J.-M., Möls, T. 2007. Combining limnological and palaeolimnological approaches in assessing degradation of Lake Pskov. *Hydrobiologia* 58, 4, 121-132.
- Perens, R., Punning, J.-M., Reinsalu, E. 2006. Water problems connected with oil shale mining in north-east Estonia. *Oil Shale 23*, 228-235.
- Punning, J.-M., Kangur, M., Koff, T., Possnert, G. 2003. Holocene lake–level changes and their reflection in the paleolimnological records of two lakes in northern Estonia. *Journal of Paleolimnology* 29, 167-178.
- Hoppe, G., Nõulik, I., Punning, J.-M. 2003. Shoreline development and Swedish colonisation of north-west Estonia during Middle Ages. *GeoJournal 56*, 185-191.
- Koff, T., Punning, J.-M. 2002. The last hundred years of land-use history in Estonia as inferred from pollen records. *Annales Botanici Fennici* 39, 213-224.
- Kratovits, A., Punning, J.-M. 2001. Driving forces for the formation of environmental policy in the Baltic countries. *Ambio*, 443-449.
- Koff, T., Punning, J.-M., Yli-Halla, M. 1998. Human impact on a paludified landscape in northern Estonia. *Landscape and Urban Planning* 41, 263-272.
- Rose, N., Alliksaar, T., Bowman, J. J., Fott, J., Harlock, S., Punning, J. M., Clair-Gribble, K. St., Vukic, J., Watt, J. 1998. The FLAME project: discussion and conclusions. *Water Air and Soil Pollution* 106, 329-351.
- Alliksaar, T., Punning, J.-M. 1998. The spatial distribution of characterised fly–ash particles and trace metals in lake sediments and catchment mosses: Estonia. *Water, Air and Soil Pollution 106*, 219-239.

- Punning, J.-M., Ilomets, M., Karindi, A., Martins, A., Roostalu, H. 1997. Greenhouse gas emissions: recent trends in Estonia. *Ambio*, *26*, 493-498.
- Punning, J.-M., Liblik, V., Alliksaar, T. 1997. History of fly ash emission and palaeorecords of atmospheric deposition in the oil shale combustion area. *Oil Shale* 14, 247-262.
- Vasilchuk, Y., Punning, J.-M., Vasilchuk, A. 1997. Radiocarbon ages of Mammoths in Northern Eurasia: implication for population development and Late Quaternary environment. *Radiocarbon* 39, 1-19.
- Punning, J.-M., Koff, T. 1997. The landscape factor in the formation of pollen records in lake sediments. *Journal of Paleolimnology* 18, 33-44.
- Pohjola, V., Moore, J., Isaksson, E., Jauhiainen, T., Wal, R. van de, Pinglot, J. F., Pourchet, M., Lefauconnier, B., Hagen, J. O., Vaikmäe, R., Punning, J.-M., Watanabe, O., Takahashi, S., Kameda, T. 1994. Natural and artificial radioactivity in the Svalbard glaciers. *Journal of Environmental Radioactivity* 25, 161-176.
- Punning, J.-M., Rajamäe, R. 1993. Radiocarbon dating organic detritus implications for studying ice sheet dynamics. *Radiocarbon* 35, 449-454.
- Varvas, M., Punning, J.-M. 1993. Use of the 210 Pb method in studies of the development and human–impact history of some Estonian lakes. *The Holocene* 3, 34-44.
- Punning, J.-M., Vaikmäe, R., Mäekivi, S. 1991. Oxygen-18 variations in the Baltic Sea. *Nuclear Geophysics*, *E5*, 529-539.
- Punning, J.-M., Raukas, A.V. 1985. *Paleogeografia pozd-netsetvertichnogo vremeni Severnoi Evropy*. Itogi nauki i tehniki. Paleogeografia, 2, Moskwa, VINIITI, 213 pp. [In Russian].
- Hütt, G., Punning, J.- M., Raukas, A. 1984. Application of TL method to elaborate the geochronological scale of the Late Pleistocene for the East European Plain. *In* W. C. Mahaney (ed.), *Correlation of Quaternary Chronologies*, GeoBooks, Bristol, 47-55.
- Punning, J.-M. K., Raukas, A. V. 1983. *Metody datirovania tsetvertichnyh obrazovanii v tselyah paleogeografitseskih rekonstruktsii*. Itogi nauki i tehniki. Geomorfologia, 7, Moskwa, VINIITI, 183 pp. [In Russian].
- Serebryannyi, L., R., Punning, J.-M. 1976. *Rol radiougle-roda v izutsenii istorii Zemli*. Novoe v zizni, nauke, tehnike, Seria nauk o Zemle, 2, Moskwa, Znanie, 55 pp. [In Russian].
- Ilves, E., Liiva, A., Punning, J.-M. 1974. Radiocarbon dating in the Quaternary geology and archaeology of Estonia. Tallinn, Estonian Academy of Sciences, 231 pp. [In Russian with English summary].