



PERSONAL ANNIVERSARY OF
AS. PROF. RNDr. SVATAVA TITLBACHOVÁ, CSc.

Svatava Titlbachová was born on January 6th, 1923 in Chlum near Třeboň in South Bohemia in the family of a teacher. She graduated from Grammar school in Třeboň and after the II World War, from the Faculty of Natural Sciences of the Charles University in Prague. She was awarded the doctor's degree of natural sciences in 1950 after defending her thesis "Normal form of human hand in the relation to biotype". In 1960 she reached degree of the candidate of biological sciences after presentation of the paper "Anthropological characteristic of a sportswoman", and in 1966 the scientific and pedagogic titel of Associate Professor at the Faculty of Natural Sciences of the Charles University in Prague on the basis of her study "The influence of exogenous and endogenous factors on woman's body build".



From the beginning of her pedagogic and scientific activities until now she remained faithful to the Faculty of Natural Sciences of Charles University in Prague, where at present she is vice director of the anthropological department and is active in many important other functions.

Svatava Titlbachová is a member of numerous scientific associations and in the Czechoslovak Anthropological Society of the Czechoslovak Academy of Sciences is a long-time member of the Central Committee and vicechairmen of the Prague branch. She is also responsible for the Hrdlička's Museum of Man at the Faculty of Natural Sciences of Charles University in Prague. Prof. S. Titlbachová is an experienced pedagogue popular with the students. She participated in compiling the textbook on anthropology for university students.

At the beginning she devoted her scientific work to forensic anthropology and later she concentrated fully on physical anthropology. She was mainly concerned in the problems of the influence of sport activities on physical build of a woman, application of anthropology in criminology where she specialized especially in research of hair and in identification of human skeletal findings. She studied also the developmental changes of human teeth starting with those in

prehistoric times up to the present, the problems of the growth and development of young people in Czechoslovakia, and the influence of maternity on the body build of women. In this latter scientific field she became the founder of the section of the anthropology of maternity and she was the main initiator of the International Symposium on Anthropology of Maternity and co-author in the exhibitions held in Brno, Prague and Berlin. She published a great number of scientific papers and took part in organizing a number of scientific symposia and congresses. She has been awarded the medal of Dr. A. Hrdlička for outstanding work in anthropology, and the honorary badge of the Faculty of Natural Sciences of Charles University, Prague for pedagogic work, and a number of other honours.

People who see each other almost every day usually do not notice how the time is flying. Also we who have been meeting for years in the hospitable work-room of Svatava Titlbachová, always embellished with flowers with exceptional taste, to discuss the activities of the Prague branch of the Anthropological Society can hardly believe the calendar reminding us the life anniversary of our modest and diligent colleague and friend.

At the festive session of the Czechoslovak Anthropological Society of the Czechoslovak Academy of Sciences on January 6th, 1983 in Prague S. Titlbachová was awarded the honorary diploma of the Czechoslovak Academy of Sciences for her outstanding scientific work. It is my pleasure to wish her all the best, good health and a lot of further success on behalf of all Czechoslovak anthropologists.

V. V. Novotný

A RESEARCH PROJECT OF THE STUDY OF
LOCOMOTION AND BEHAVIOUR OF MONKEYS
WITH REGARDS TO THE ENVIRONMENT
(Primate Research Centre, Academy of Medical Sciences,
USSR, Sukhumi, Georgia, USSR)

In 1981 (July, August 1981, 1982) the Institute of Experimental Pathology and Therapy of the Academy of Medical Sciences of the USSR launched a research project studying the relations of locomotion, behaviour and environment in the ontogenetic development of monkeys. Within the framework of co-operation between the Anthropological Group of the Department of Evolutionary Biology of the Microbiological Institute of the Czechoslovak Academy of Sciences in Prague and of the Ethological Group of the Zootechnical Department of the Institute of Experimental Pathology and Therapy of the Academy of Medical Sciences of the USSR in Sukhumi the project has been realized by Dr. Václav Vančata, CSc. (Prague), Dr. Marina A. Vančatová (Sukhumi) and Dr. Valerij G. Čaljan, CSc. (Sukhumi — Head of the Zootechnical Department). The main objective of the project is to study the ontogenesis of locomotion and behaviour of monkeys with regards to the environment, to study the general characteristic and certain special features of locomotion in monkeys and to study the capability of ontogenetic and phylogenetic adaptation in their behaviour and their social structure. Four species of monkeys kept in large secluded areas are being studied (hamadryas baboon, stumptail macaque, rhesus macaque and the crab-eating macaque) and hamadryas baboon also in a natural reserve area in the Caucasus Mountains. The project involves in all cases large groups of freely mating and reproducing groups of monkeys of normal social and age structure. Each individual

subjected to research has its own log-book, in which all qualitative changes in his locomotion and behaviour are recorded, as demonstrated during 15 minute observation. The monkey population has been divided into four ontogenetic developmental phases — according to their sex and age, (basic phase — up to the age to six months, adaptation phase — six months to one year, specialization phase — one year of age to puberty, stabilization phase — adulthood). Photographic and cine documentation of the individual monkeys has also been realized. The results of the research project will be processed with the help of GUHA programmes (Mathematical Centre of Biological Institutes, Czechoslovak Academy of Sciences, Prague) and through BMDP programmes (University of California, Los Angeles) in the computer centres of the Czechoslovak Academy of Sciences.

The preliminary results of the projects show unequivocally that the ontogenetic development of locomotion and of the behaviour take place in all four phases (basic, adaptation, specialization and stabilization phase), for the first time qualitatively established when studying the locomotion and behaviour of chimpanzees (Vančata 1981 Ph.D thesis. ČSAV Praha, 1982 *Anthropos* 21: 41–46). Monkeys show certain characteristic patterns of locomotion and behaviour adaptations, typical of the individual species at the same time relatively strongly correlated with the given environment. In those monkey species which can be compared ecologically obviously occur certain characteristic changes in the composition of locomotion adaptations and in the structure of behaviour in connection with certain type of environment. It also appears a higher share of play behaviour reduces the share of agonistic reactions inside the social structure of the group due to the limited size of the territory, more exactly due to the limited freedom of migration. The share of manipulation, and probably also the share of primitive tool behaviour can substantially increase, especially in adult individuals. The comparison of the behaviour of various monkey species kept under various conditions shows that they are highly adaptive and thus their characteristic locomotion and behaviour patterns can vary a great deal. Nevertheless, to ensure good adaptability of primates in capture, directly reflected also by the results of the study of primates kept in these secluded areas, it is imperative to preserve some characteristic features of the environment, namely those inevitable for the normal development of locomotion and play behaviour of the young. From the viewpoint of studying the acclimatization of the primates it appears to be useful to follow the general characteristics of their behaviour under certain conditions, both within the framework of a single species and also on interspecies level. The comparison of the locomotion and its ontogenetic development in several species of monkeys under certain conditions enables us to understand the functioning of locomotion development mechanisms in hominids. It is also of great importance for the study of conditions and possibilities of the origin and development of bipedal gait in hominids, especially in the early phases of this process.

Václav Vančata, Marina Vančatová,
Valerij G. Čaljan

TWO IMPORTANT PALAEOLOGICAL DISCOVERIES IN EAST AFRICA

Participants of the First Congress of Human Palaeontology held in Nice between October 16–21, 1982 were acquainted with two most important new finds of east-African fossil hominids.

In the region of central Awash in Ethiopia an international expedition headed by Professor D. Clark found in layers older than 4 000 000 years a proximal fragment of the body of a robust femur and well-preserved frontal part of a skull. The hitherto finds attributed to *Australopithecus afarensis* from Afar in Ethiopia and from Laetoli in Tanzania were dated at roughly 3,2 and 3,6 mil. years. Earlier finds or layers presumed to contain earlier finds are so far very rare, although it is the very period where we can ex-

pect the separation of the first hominids from the pongid branch of the primates. Finds from this period can also confirm or correct the views of molecular anthropologists, according to which (in contrast to the original palaeontological views) this evolutionary division occurred between 4–8 mil. years. Although discovered part of the femur represents less than 1/3 of the total length of this bone, its morphology, the shape of its cross section, the gluteal groove, the shape and position of the trochanter, trochanter tertius, etc. clearly indicate that it belonged to an erect stature of hominid type, with bipedal locomotion. In this connection the braincase of the skull was very short, as we can see it in chimpanzees, suggesting that its brain capacity was low. Only the direct horizontal course of the supraorbital ridge in vertical view differs from the broken shape of this feature in the chimpanzee. Realizing the evident pongid characters, e.g. on the upper jaw of *A. afarensis* AL. 200 it is quite obvious that in these early stages of hominid development bipedality appears very soon, obviously as one of the first hominid characters, long before the development of the brain which followed much later and only gradually. The middle Awash find was not accompanied by stone industry, the same as the later *A. afarensis* finds. The rare find from middle Awash is at present studied by Professor T. White from the University of California in Berkeley.

Other important find was presented by Professor van Noten, known among other things as the author of publications on the Saharan rock art. Professor van Noten from the Tervuren Museum in Belgium demonstrated to specialists gathered at the congress a find of a lower jaw coming from the Baringo in Tanzania. The body of the jaw is low but robust (more robust than the one found earlier in the same site); it shows sexual dimorphism or intraspecific variability. It has a strong planum alveolare with a deep mandibular fossa. In general the jaw body and the alveolar arch are almost V-shaped. Due to the missing canines the adjoining teeth were shifted into the free space. I.e. the gap which can be seen does not represent a diastema. The incisors show an interesting horizontal and labial attrition, evidently caused by some sort of repeated mechanical activity. The molars are of elongated Homo type. It is highly probable that the find belonged to an representative of *Homo erectus*.

J. Jelinek

THE FIRST CONGRESS OF HUMAN PALAEOLOGY IN NICE

The First Congress of Human Palaeontology, organized by Professor Henry de Lumley and Marie Antoinette de Lumley, and presided by Professor Jean Piveteau, was held in Nice, France between October 16–21, 1982.

The event took place in the new Exhibition Hall and was accompanied by a large exhibition called "The Origin and Evolution of Man". A special symposium on Tautavel Man and its position amongst the Hominids formed part of the congress. The congress covered all stages and periods of human evolution, namely:

- Non-human primates
 - Australopithecus* and *Homo habilis*
 - Homo erectus*, *Pithecanthropus*, *Sinanthropus*, *Atlanthropus*, *Anteneanderthals*
 - Homo sapiens neanderthalensis*, *Neanderthals* and *Neanderthaloids*
 - Homo sapiens* of the Upper Palaeolithic and Mesolithic periods
 - Homo sapiens sapiens* in the Neolithic and metal ages
 - Subfossil and recent populations
- The rich programme was accompanied every evening by interesting public lectures.

The congress was attended by more than 800 specialists from 40 countries and more than 140 papers covering the whole field of human palaeontology were delivered. Some new discoveries and new ideas were also presented: In central Awash, Ethiopia, an international expedition headed by Professor D. Clark discovered a new femoral fragment and pieces of a cranial vault of a hominid slightly