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In memory of Olga Mikhailovna Martynova (1900 - 1997)

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O.M.Martynova (Aleksandrova) (see the cover photo) was born in St.Petersburg on 19 July 1900; her father was a forester. They moved to Narva, where Olga entered a grammar school. Her father was then moved back to Petrograd, as the city was renamed after the 1st World War; here she completed her schooling. She collections in the old copper mines, which had been remembered from this time seeing the last Russian Tsar, Nikolai II. Olga now entered the Faculty of military purposes. They worked in very severe winter Geography in the Petrograd Pedagogical Institute, and conditions often with no timbering in the galleries, with also attended lectures in the University and the almost no lighting, and little food. When the work was Academy of Forestry. While a student she became finished in March 1942 Olga returned to Moscow to interested in freshwater animals. In 1921, while still a help in protecting the collections in the Institute. She student, she took part in the first scientific expedition was in night watches on the roof dealing with of the State Institute of Hydrobiology, to study the incendiary bombs. Despite everything Olga continued waters of Karelia. These were difficult and hungry with her scientific work. At the beginning of the war times, but nothing could weaken the zeal of this young the government had ordered research laboratories to vigorous girl with her ringing laughter and quick direct their work to practical ends to help in the war tongue. Throughout her long life she retained her effort. Rohdendorf proposed a new theme in the study optimism and sense of humour. On this expedition she of insect flight which could help with aircraft met Professor Andrei Vasilievich Martynov, whom she problems. Olga prepared the literature survey and married in 1923.

Entomology of the Zoological Institute of the Academy Rohdendorf's remarkable monograph, Evolution and of Sciences (ZISP), first as a laboratory assistant and classification of flight mechanisms of insects (1949). then as a scientific research officer. Here she worked hand in hand with Martynov until his untimely death in staff of the Institute had been moved from Moscow to 1938. Her first scientific papers (1923-1930) appeared Alma-Ata City. In the spring of 1943 the Institute under her maiden name of Alexandrova. She studied Trichoptera and Neuroptera in the collections of ZISP. She was in charge of these two groups, organizing the still based in Moscow, Olga went in the summer of collections under the old traditions of the Institute. This system continued until recent years. Sometimes the the summer of 1943 to Issyk-Kul Lake. Despite names of newly determined species were outlined by difficult conditions valuable material was collected. A.V. Martynov, who left the labelling to Olga.

In 1936, the family moved to Moscow, following the move of the Academy of Sciences and Mecoptera. In 1946, in spite of housing problems and Palaeozoological Institute to that city. A.V. Martynov was already working on the first collections of fossil hexapods, and had established the first Laboratory of Palaeoentomology in the world. After his death in 1938 Olga organized the files of his material. This was her first work in the new Arthropod Laboratory of the Mecoptera she was interested, from 1947 to 1961, in Institute of Palaeontology of the Soviet Academy of fossil Neuroptera, Raphidioptera and the extinct order Sciences. In 1938 Boris Borisovich Rohdendorf Glosselytrodea. became the first Director; he was a well-known expert on Diptera and had already been invited there by A.V. basis for a sound critical revision of existing Martynov as his probable successor. At this time the classifications of recent and fossil Mesozoic and Institute had a staff of only three: Rohdendorf, Olga Palaeozoic lacewings and the significance of relict and E.E. Becker-Migdisova. Olga was responsible for families. She described in 1947 the Jurassic and Mecoptera, Neuroptera and Trichoptera.

continued. Olga was in the first palaeontology resemblance to butterflies. Rohdendorf described as expedition in 1938 to the Kargala copper mines. In very important her discovery of fully-winged 1939 with Becker-Migdisova and two teenagers (her specimens of Permian Glosselytrodea. She also made son and a son of A.A. Shtackelberg), Olga went to the important discoveries on Trichoptera in 1958 and 1961

North Caucasus. Both expeditions yielded rich material, and plans were prepared for further work. However, it was now 1941, and the Soviet Union was drawn into the 2nd World War.

These were difficult and hazardous years for everyone in the country. Already in 1941 the evacuation of the Institute to Alma-Ata City in Kazakhstan was begun. The collections were prepared for removal there, or safe-keeping in Moscow. At the end of August 1941 Olga went with Rohdendorf and other palaeontologists to the Kargala mines on the Orenburg district. They had to plan for storage of closed in 1909. More copper was now needed also for illustrations and made contacts with the Zhukovsky She now started working in the Department of Aviation Academy. This work was completed in

> By September 1942 almost all the remaining moved to Bishkek in Kirgizia (known then as Frunze), where conditions of the life were a little better. While 1942 on an expedition to Kirgizia (Chon-Tuz) and in During the war years Olga published several papers on Permian and Jurassic fossil insects, mostly on shortage of food she defended her PhD thesis, and in 1948 published her book Materials on evolution of Mecoptera, based on the thesis. This work clarified the phylogeny of the Mecoptera and the relations of extant relict species with the Mesozoic faunas. As well as

Olga's studies of 1940 and 1952 were the Cretaceous lacewings of the family Kalligrammatidae. The field work started by Martynov was These insects, with enormous wings, bore a superficial

in finding the first fossil Amphiesmenoptera (Microptysmatidae) from the Permian, which she regarded as Trichoptera, and proposed the suborder Permotrichoptera for them. She regarded the anal loops on the forewings as adaptation for maintaining air storage under the overlapping hindwings while diving. She suggested that Lepidoptera should also have had an aquatic mode of life.

The monograph Palaeozoic insects of the Kuznetsk basin (1961) described 429 fossil insects as a result of collective work in the Institute. In 1962 it won an award from the Moscow Society of the Investigators of Nature. This monumental publication was prepared mostly by Rohdendorf, Olga Martynova, Becker-Migdisova and A.G. Sharov. Olga wrote the general and geological parts and sections on Miomoptera, Neuroptera, Mecoptera and Trichoptera, and also most of the chapter on faunistic complexes.

The volume The Arthropods, Tracheata and Chelicerata in the series Fundamentals of Palaeontology was issued in 1962. In it Olga wrote sections on 21 orders of hexapods, including Mecoptera, Neuroptera and Trichoptera and also on Isoptera, such remote groups as Apterygota, Dermaptera, Embioptera, Phasmatodea, Thysanoptera and the extinct Miomoptera and Caloneurodea. The Olga M. Martynova with F. Carpenter in the 1960's in Fundamentals of Palaeontology was a unique Moscow publication and won the Lenin Prize, the highest award in the former Soviet Union.

Other field work carried out by Olga Martynova included fossil deposits in Zaisan and Irtysh (Altai Mountains) in 1946, and between 1949 and 1956 to Kuzbass where there were large Permian deposits. These finds led to the next stage of study of faunistic complexes following on the work of A.V. Martynov. In all her publications and at meetings in Leningrad, Moscow and Tomsk, Olga emphazied the importance of insects in stratigraphy and correlations of beds. Her last expedition was in 1959 to Transbaikalia to visit the Lower Cretaceous site at Baisa and to the Jurassic site at Ust-Baley at the Angara River. Both these sites had been only recently discovered. The material collected was rich in fossils, including Trichoptera, often in large aggregations of larval cases.

Olga Martynova was a natural field worker. She retained always her sense of responsibility, efficiency and persistence, as well as optimism. Young people often joined in her expeditions and became enthusiasts in the difficult and tiresome search for fossils. Many of them carried on as biologists. We must remember her activity in Palaeontological and Entomological Societies and especially in the Moscow Society of the investigators of Nature. She was a member of this last Society from 1939 and Honorary Member from 1996, and founded the section on Palaeontology and also presented several of scientific reports. In 1960 she was allowed to attend two scientific meetings outside Russia. The first was the 11th International Entomological Congress in Vienna where she talked on Carboniferous and Permian Towards the end she was blind and could not walk Raphidioptera. The second was the International Geo-



logical Conference in České Budějovice where she reported on the stratigraphic importance of insetcs.

In addition to all her scientific work, Olga looked after the collection of fossils during her years at the Institute of Palaeontology. She had developed a system of registration for some 250.000 items. This system was compatible for computer registration. She also helped in accumulating a library which is now the largest collection of palaeontological literature in the world.

Olga Mikhailovna Martynova had a unique personality. She was always elegant and efficient, with a shock of disobedient hair which turned prematurely grey. She had an astonishing character which made everyone feel love and respect for her. She had so many friends and wrote hundreds of letters when on holiday. Olga kept up her social activity throughout her years in the Academy of Sciences. She fought for better working and living conditions for staff in the Academy as a whole. She would always take the risk of writing to the authorities on behalf of repressed colleagues and pleaded for justice in the 1930's when people could be done away with for no good reason. She cared for the families of imprisoned colleagues and did all she could to help them, despite the danger to herself. She had real courage and would always help friends in danger. This courage helped her to endure the death of her son and the elder of her two grandsons. She helped her relatives, including the family of her younger grandson, and especially her daughter-in-law L.V.Martynova with whom she lived for 50 years. about because of a leg fracture.

Despite everything she kept in contact with her former colleagues and remained well-informed about everything in the Institute, thirty years after her retirement. Her last scientific work, Chapters in the historical development of insects, was published in 1980. She had published a total of 60 scientific papers and books.

Olga Mikhailovna Martynova passed away on 18 February 1997.

(Re-written by M.Ian Crichton, 26 May 2002)

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