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In the past, the International Beekeeping Congresses have been reported fairly fully in *Bee World*. This is no longer necessary, since the Apimondia Publishing House in Bucharest now produces extensive accounts of the proceedings, in several language editions. Moreover, readers who completed the *Bee World* questionnaire a year ago made it clear that they prefer to learn about bees rather than to read about procedures at meetings, excursions, etc.

We are continuing the practice of listing papers presented to the Congress, knowing that this is valued by many readers. Compared with the last few Congresses, a shift of interest is apparent—away, for instance, from bee diseases and poisoning, and towards the exploitation of bee products. This is to some extent linked up with the fact that a “Symposium on the use of bee products in human and veterinary medicine” was held as part of the Moscow Congress. The Symposium itself reflects the present policy of beekeeping and bee research in the Soviet Union and other countries of Eastern Europe, which together contributed 65% of the Congress papers. West Germany (BRD) contributed 9% and the rest of the world the remaining 26%—only 6% being from English-speaking countries.

In the list below, papers are grouped under broad subjects (with UDC numbers appended), as in earlier *Bee World* Congress reports. The author’s name is followed by the page number in the English “Summaries of papers”;

such collections of Summaries were published in French, German, Russian and Spanish. Page numbers marked “s” refer to the book of English summaries relating to the Symposium mentioned above. (Fourteen further papers, of which no summaries were published, were included in the programme.) Any papers which give new information not available elsewhere will be dealt with individually in *Apicultural Abstracts*.

### Beekeeping Organizations 638.1

- **Kodon, S. (57)** On the activity of working groups of Apimondia
- **Gassparian, S. (37)** Proposals for improvement of international co-operation in apicultural research
- **Hilhorst, P. T. (44)** Co-operation in beekeeping
- **Assys, L. (9-10)** Legislation on and status of beekeeping in Belgium
- **Gnädinger, F. (39-40)** Economics, organization and technology of beekeeping in FRG [West Germany]
- **Schmidtke, O. (89-90)** Beekeeping in German Democratic Republic
- **Svoboda, J. (95-96)** Beekeeping in the Czechoslovak Socialist Republic
- **Kocsis, S. (56-57)** Beekeeping in Hungary
- **Nedyalkov, S., Mitov, B. & Venov, B. (71)** Organizational structure of beekeeping in People’s Republic of Bulgaria
- **Mitov, B. & Markov, M. (69)** Interco-operative beekeeping enterprises—an effective form of beekeeping centralization

### Honeybees 638.121

#### Queens 638.121.1

- **Rihar, J. (82-83)** Priority of Anton Janša (1734-1773) in discoveries on biology and queen rearing
- **Akopyan, N. M. & Markosyan, A. A. (4)** Biochemical study of queens obtained in different periods of the season
- **Safoval, Y. & Krieg, P. (87-88)** Change of queen weight after emergence from queen cell
- **Vešely, V. (107)** Studying sperm delay in oviducts of inseminated queens
- **Koeniger, G. (57-58)** Physiological study of spermatheca of the queen (Apis mellifica L.)
- **Škrobál, D. (93)** Alarm pheromone development at different stages of ontogenesis in *Apis mellifica* queens

#### Workers 638.121.2

- **Dietz, A. (25)** Changes with age in some mineral constituents of worker honeybees
- **Kropáčová, S. & Haslbachova, H. (61)** Development of ovaries of worker bees in a colony
- **Zherebkin, M. V. (112)** The inverting capacity of hypopharyngeal glands and honey productivity of bee colonies
- **Sinitsky, N. N. & Levchenko, I. V. (93)** Protein and free amino acid contents in the haemolymph of worker honeybees
- **Șerban, M. & Petrescu-Raianu, A. (90)** Contribution to the cytology of the haemolymph of [the worker honey] bee
- **Popa, L. & Crisan, I. (79-80)** Contribution to the knowledge on proteins of the winter [worker] bees’ haemolymph

#### Drones (congregation areas) 638.121.3

- **Böttcher, F. K. (16)** Queen mating places
- **Ruttner, H. & Ruttner, F. (86)** Drone gathering places and mating places

### Honeybee Races 638.123

- **Ruttner, F. (85-86)** Principal characteristics of economically useful species and races of bees
- **Subbotin, J. A. (94-95)** Correlative connections between different characteristics in bees of different origin
**The Colony, including Social Behaviour 638.124**

**Cherednikov, A. V. (18)** Photoperiodic regulation of seasonal phenomena in bee colony

**Koeniger, N. (58)** Building of combs by bees

**Velthuis, H. H. W. (106)** Behavioural aspects of the dissemination of queen substances

**Kresák, M. (60–61)** Effect of some physical factors on bee ontogenesis

**Yakovlev, A. S. (111–112)** Methods of effective use of early egg laying queens under weak honey flow conditions

**Praagh, J. P. van (104)** Environmental improvements enabling a stabilized colony life in a bee flight room

**Communication in Honeybees 638.124.38**

**Pankova, S. V. (75)** About signal dances of honeybees

**Levchenko, I. A., Bagrit, I. G., Olifer, V. N. & Shalimov, I. I. (62)** Mobilizing level of dances in different honeybee races

**Lopatina, N. G. & Ponomarenko, V. V. (65)** Race variability in the signal activity of honeybees in connection with a number of physiological characteristics

**Edrich, W. (28)** Honeybee dances under the light source and reduced gravitation effect

**Eskov, E. K. (33)** Sound communication signals in honeybee colonies

**Nectar plants 638.132.1**

**Antsiferova, T. A. (8)** Efficiency of nectar plants in beekeeping and in biological plant protection

**Rusu, C. & Chirilei, H. (85)** The influence of the mineral nutrition on the dynamics of sugars and the nectar secretion

**Battaglini, M. & Battaglini, M. (12)** Relationship between characteristics of glucide component of fruit tree nectar and pollination activity of *Apis m. ligustica* Spin.

**Girnik, D. V., Cheryatnikova, T. L. & Rusakova, T. M. (39)** Photosynthetic activity and nectar secretion of buckwheat plants

**Simidchev, T. (92)** Investigation on sugar spectrum in nectar of some honey plants in connection with collecting activity of honeybee (*Apis mellifera* L.)

**Jablonski, B. (46)** Valuation of honey-productivity of plants at the basis of calculation of visits to blossoms by bees

**Janos, P. (47)** Nectar productivity of nectar plants

**Haragisim, O. (43)** Nectar-production and pollen-production of some forest plants

**Koch, H. G. (55–56)** Honey flow characteristics in northern and central Europe

**Keresztesi, B. & Halmagyi, L. (52–53)** Robinia (*Robinia pseudacacia* L.) as the basis of the marketable honey production in Hungary

**Kamenov, K. (49)** Successive nectar blossoms in conditions of intensive agriculture

**Sources of Honeydew 638.139.2**

**Cirnu, I. & Teke, E. (19)** The biology and the economic importance of brown Lachnidae of oak tree (*Lachnus roboris* L.)

**Galuszka, H. & Galuszka, A. (35–36)** Influence of meteorological factors and of the day time on secretion of honey dew (in *Cinara pectinatae* Nord.)

**Schurk, S. (59)** Honeydew flow timing and its forecasting in GDR [East Germany]

**Rihar, J. (82)** Methods of forecasting honeydew flow in silver fir

**Beekeeping Practice 638.14**

**Kaeser, W. (47)** Biology and techniques of beekeeping

**Delon, R. (24)** Beekeeping economics, organization and technology

**Puscasu, G. (81)** Improvement of organization and management methods

**Peroutka, M. (76)** The time necessary for attending to bee colonies at industrial apiaries

**Forster, H. (34)** Analysis of the work of a commercial beekeeping enterprise (at Ilertissen, with about 1000 bee colonies) by means of net plan method

**Cornejo, L. G. & Fyzovich, B. (21)** Production cost of honey for the 1969/70 yield in Argentina

**Kettner, H. (54)** Contribution to the problem of bee colonies’ transportation

**Hives 638.142**

**Knapi, A. (55)** Tests of hives made of plastic material

**Konstantinovic, B. (59)** Types of hives in Yugoslavia

**Popovic, B. (80)** Serbian thermostatic hive

**Schelle, E. (88–89)** Extensive work method in one-wall supers related to free location of bee colonies [single-walled free-standing hives] in southern Germany

**Ntenega, G. (73)** Hive developments in Tanzania

**Mihalik, Y. (68–69)** Containerization in beekeeping

**Feeding Bees 638.144**

**Kepesa, V. (52)** Influence of autumn feeding on the quality of bees

**Eickmeyer, K. A. (29)** About the replacement of supplies of honey by sugar for wintering and development of bee colonies in early spring

**Dreher, K. (27)** About the influence of acids in winter feeding on bees

**Anghel, G., Rosenthal, C., Caragiani, S., Cosmin, S., Ungureanu, L. & Chivu, R. (7)** Dynamics of the flow and pollen stores and possibilities of food supplements during the critical periods

**Nowakowski, J. & Borecki, W. (72–73)** Preliminary results of research on the effect of peat stimulator on the development of a bee colony

**Oeriu, S., Cimpeanu, L. & Marin, M. (73–74)** Experimental data on the folcistein A as a stimulator for bees

**Lluch, V. G. (178)** Blood plasma enriched by gamma globulin as a valuable therapeutix honey product [from feeding bees]

**Bee Breeding 638.145.3**

**Woyke, J. (110–111)** New experimental data in honeybee genetics

**Gasanov, Sh. S. & Borodachev, A. V. (36–37)** Effect of some chemical mutagens on phenotypic characters of honeybees

**Drescher, W. (27–28)** Breeding for polygenic characteristics of *Apis mellifica*
Barac, I. (12) Prospects of the use of the crosses between ecotypes of bees meant to increase honey production
Gassparian, S. & Heydari, S. (37) Genetic studies on local bee colonies of Nadjafabad [Iran] when given queens from abroad
Doughet, M. (26–27) Selection as a method to prevent bee diseases

**Queen Rearing 638.145.5**
Cornejo, L. G., Itzcovich, B. & Bartolome, R. (21) Production cost of queens for the 1969–70 period in Argentina
Weiss, K. (109–110) About the use of old queenless nurse colonies for reproduction
Velichkov, V. (105) Egg laying of queens reared in queenless and queenright nurse colonies
Taranov, G. F. (97) Increasing nuclei efficiency in bee breeding apiaries
Foti, N., Dragan, M. & Constantin, V. (34) Comparative research on the acceptance of emerged queens and queen cells by the mating nuclei
Morozov, A. V., Cherevko, Y. A. & Gadelia, N. V. (69–70) Winter rearing of queens and drones under greenhouse conditions
Ghilezan, R. (38) The construction features of the new apparatus for artificial insemination of queens

**Bee Diseases and Enemies : General 638.15**
Tretyakov, A. D. (101–102) Measures taken in U.S.S.R. for fighting bee diseases
Czech, M. (22) Measures to control bee diseases adopted in Tolna Komitat [Hungary]
Matuka, S., Aganovic, N. & Matuka, O. (66–67) Fungi identified in diseased bee colonies
Toshkov, A., Camburov, G., Karadzhov, Y. & Shaynov, M. (100) Disbacteriologic phenomena in bee colonies
Grobov, O. F., Zizman, B. V. & Kerimbaev, A. K. (41) Tissue culture in studying causative agents of honeybee diseases
Niemczuk, R. & Sobiesczanska, B. (72) Bee resistance
Ljutoškanov, D. (64) Curative syrup and antibiotics
Escalente, O. S. (31–32) Mallophora ruficauda W.—a dangerous enemy to bees

**Adult Bee Diseases 638.153**
Tomaszewska, B. (100) Experimental septicaemia caused by Pseudomonas aeruginosa
Trelíkova, V. A. (102–103) Pathogen carrier state and salmonellosis in bees
Lihotín, A. (63) Changes in bee organs and tissues following intravaginal and other routes of infection with Aerobasidium pullulans (De Bary) Arnaud
Poltév, V. I., Talpalatsky, P. L. & Slaganik, R. I. (78–79) Ribonuclease in the proplaxis of virus parasitism in bees
Aleksenko, F. M. & Vovk, A. M. (4–5) Age and race resistance of bees to acarine disease and new means of its control

**Nosema Disease 638.153.3**
Shabanov, M. & Camburov, G. (91) Studies on nosema disease in the People's Republic of Bulgaria
Hanko, J. & Lemakova, S. (42–43) Nosema disease in drones
Camburov, G. & Shabanov, M. (17–18) Experience on the use of immunoflowrescence method in diagnosing nosema disease
Jacobs, F. (46–47) Studies on the effect of feeding and environmental temperature on Nosema apis Zander in honeybees (Apis mellifica L.)
Laere, O. Van (104) Use of diiodohydroxychinoine to control nosema disease

**Bee Poisoning 638.158.2**
Lluch, V. G. (64–65) Pest control and beekeeping
Sofroni, D. (94) Suggestions for a world regulation on honeybee protection from pesticides
Safer, G. V. (87) Correlation of bee protection with pest control by insecto-fungicides
Szili, M. (96–97) Possibilities to control pests by dry aerosols applied to plants in blossom without injuring bees
Bonfante, S. (14–15) Integration method of phytophase control securing bees' safety in orchards
Nazarov, S. S. (70–71) Pesticides in the honeybee nest and contamination of bee products
Trutschel, G. (103) Arsenic toxicosis in Apis mellifica L. and its treatment with medicines
Shakaryan, G. A., Danielyan, S. G. & Akopyan, Z. M. (91) Chlorotetracycline and oxytetracycline in bees, larvae and honey
Haragüim, I. & Vankova, J. (43) Pathological effect of endo- and exotoxins of some strains of Bacillus thuringiensis Berliner on the honeybee and its brood

**Honey : Composition and Properties**
Rusi, I. (84) Observations on the characteristic features of some honeys
Battaglini, M., Bosi, G. & Albore, G. R. (13) Microscopical and physico-chemical characteristics of some unifloral Italian honeys
Ghilezan, G. & Ghilezan, R. (38) Data on the mineral elements in some honeys
Demianowicz, Z. (24–25) Characteristics of fir tree honey on the basis of its microscopical and some physico-chemical properties
Daghie, V., Cirru, I. & Cioca, V. (22–23) Contribution to the study of the bactericidal and bacteriostatic action of honey produced by Physokermes sp. in the area of coniferous trees
Willson, R. B. (110) Diastase and hydroxy-methyl-furfural in international food regulations—a sequel
Dreher, K. (27) Rhodotorula—the reason of a red shade of honey
Pilz, I., Hary, M. & Iliesiu, N. V. (25s) Honey in synergetical association as a treatment of various affections of mouth
Honey: Processing 638.163
Townsend, G. F. (101) Honey processing and packing operations used in America
Jachmowicz, T. (46) Guidelines for honey production
Kalman, C. (48) Some more details on honey processing
Bornus, L. (15-16) Improved technique for honey liquefaction
Bucata, P. (16-17) Observations on the technological process for the preparation of cream honey

Beeswax 638.171
Dobrokhотов, S. A. (26) New technology of crude wax processing
Antonescu, C. (7) Procedure for beeswax industrial extraction
Picha, S. (78) Beeswax as superadditive in photographic litho developers

Hive Products: General 638.178
Kostecki, R. (59-60) Studies on Bacillus larvae and Nosema apis spore detection in honey and wax
Petrov, M. (24s) The effect of treatment of acute and chronic inflammatory diseases of respiratory tracts with the complex of aerosol inhalations with bee venom, honey, royal jelly and propolis
Okada, I., Matsuka, M. & Hoshiba, H. (74) Utilization of drone larvae and pupae as semi artificial diet for aphidophagous insects

Royal Jelly 638.178.A
Macíčka, M. (65-66) On royal jelly production
Janči, J. (13s) Our modern apparatus for extraction and purification of royal jelly
Svoboda, J., Makhova, M. & Bacilek, Y. (29s) Determination of royal jelly quantity and quality in honey
Coddounis, M. (20) Special method of storing royal jelly meant for sale
Matuzewski, J., Kaczor, E. & Koltek, A. (67) Immuno-suppressive effect on royal jelly
Alles, P. & Alles, G. (58) On the determination of physiological activity of stored royal jelly components
Georgieva, E. & Vasilev, V. (12s) The results of treating patients suffering from ulcers with royal jelly
Peichev, L., Murdjev, A. & Dimitrov, G. (23s) Royal jelly for patients with surgical diseases and urinary diseases
Peichev, L. & Dimitrov, G. (23s) Opsonic index in patients with surgical diseases before and after their treatment with royal jelly

Propolis 638.178.B
Peschansky, A. N. (23s) Propolis concentrate
Matei, I., Cizmariik, J. & Straka, R. (18s) Some aspects of the use of propolis in human medicine
Cizmariik, J. & Matei, I. (20) Studies on chemical composition of propolis. Isolation and identification of 3-methoxy 4 oxy-cinnamic acid
Propavenko, S. A. (80) Chemical composition and biological activity of some fractions of propolis
Bogdan, I. (9s) Use of propolis in different affections of the breathing apparatus
Karimova, Z. H. & Rodionova, E. N. (50-51) Use of propolis for the treatment of pulmonary and bronchial tuberculosis
Rooks, V. P. (27s-28s) The use of propolis for the treatment of non-specific endobronchitis
Tanasiенко, Y. S. (30s) The use of propolis for the prophylaxis and treatment of chronic non-specific pneumonia and bronchial asthma in children
Bolshakova, V. F. (10s) On use of propolis in dermatology

Scheller, S. & Seferowicz, E. (28s) The use of active fractions of propolis in the prophylaxis and in the treatment of pyoderma
Pochinkova, P., Popnikolov, P. & Donchev, S. (26s) Our experience and observations of medical properties of propolis applied for middle ear diseases
Palmbakha, S. E. (22s) The study of antimicrobial effect of propolis on microflora of gastrointestinal tract
Nikolov, S., Todorov, V., Georgieva, E. & Drenovskyy, S. (19s-20s) Use of propolis for ulcer control
Kivalkina, V. P. & Budarkova, E. L. (54-55) Adjuvant effect of propolis used for immunization in combination with tetanus antitoxin
Kivalkina, V. P., Balalkina, A. I. & Piontkovskyy, V. I. (15s-16s) Plasmocytic reaction of white rats immunized with the combination of antigen and propolis
Atyasov, N. I., Guseva, M. P. & Kupriyanov, V. A. (7s-8s) Treatment of granulating wounds by propolis ointments

Pollen 638.178.2
Sellianakis, G. (90) Pollen (production and economy)
Constantini, F. & Albore, G. R. d’ (20) Pollen as additive in the chicken diet
Georgieva, E. & Vasilev, V. (12s) Therapeutic and prophylactic effects of pollen in treatments of bleeding ulcers

Bee Venom 638.178.8
Okhotsky, B. A. (21s-22s) Bee sting treatment in combination with helio- and thalassotherapy
Solodukhov, I. G. & Cherepnnova, N. A. (29s) Production of medical preparations of bee venom
Orlov, B. N. (20s) Basic cholinolytic properties of bee venom
Artemov, N. M., Korneva, N. V., Orlov, B. N. (9) Physiological analysis of reflectory effect of bee venom
Razvozova, E. P. (27s) The use of Apifor in surgical clinics
Kharchenko, N. S. & Pochepstov, V. G. (14s) Experimental and clinical study of bee venom preparation—Toxapin
Gavrikov, B. N. (11s) Use of bee venom preparation "Apitox" for some human diseases treatment
Bredikhin, G. M. (10s) By-effect of apitherapy
Orlov, B. N. & Cherepnov, V. L. (21s) The study of bee venom effect of nervous tissue with electron microscope
Bobrova, N. A. & Smirnov, N. V. (8s) Application of bee venom preparations to cure diseases of peripheral nervous system
Boldina, N. A. (9s-10s) Use of bee venom to cure some diseases of nervous system
Karnievv, F. D. (14s-15s) Bee venom treatment of auditory nerve neuritis
Benton, A. W. (13) The physiological responses of normal human beings to honey-bee venom
Artomasova, A. V. & Titova, S. M. (7s) Allergy to bees
Shkendrov, S. (28s) Fractionation of bee venom and study of its components as stimulators of cortex adrenal glands and anaphylactogenesis
Miron, A. V. & Korabievy, M. V. (18s-19s) Dimedrol—an antagonist of bee venom (Apisarthron)
Poberezhskaya, T. I. & Kireeva, V. F. (25s-26s) Secretory evacuation function of the stomach and gall secretion in dogs poisoned with bee venom
Pochinkova, P., Zlateva, M. & Zhikova, Z. (26s) On some changes in muscular and bony tissues as the results of local application of bee venom administered by ultrasonic-phonoeresis method
Use of bee venom in the treatment of polyarthritis and some other diseases in out-patients

Preliminary results of the use of bee venom as an anti-relapse remedy for lumbosacral radiculitis

Electrophoretic application of bee venom (Apifor preparation) for treatments of sacrolumbar radiculitis and arthritic deformation

The effect of Russian and American bee venoms on cardiovascular hemodynamics

The effect of bee venom (Apisarthron) and its combinations with royal jelly (Apilac) on the development and outcome of experimental myocarditis

The experience of the treatment of inflammatory gynecological diseases with the bee venom preparation Apisarthron

Bee venom influencing the sex system function of female rats

Pharmacobiochemical studies on anti-inflammatory effect of Apamin peptide

The influence of bee venom on blood coagulation

Effect of bee venom and melitin on plasma cortisol in the unanaesthetized monkey

The use of protozoa and other animals with transparent body for toxicological research

The study of enzymic and other biochemical indices of diagnostic importance in blood and liver of rats, injected with long-term big doses of bee venom

The influence of Hymenoptera venom on Paramecium caudatum

Preliminary studies on the mating behaviour of Apis mellifera and Apis indica queens and their age of starting oviposition

Interspecific introduction of queens (Apis mellifera queens into A. indica nuclei)