

INTERNATIONAL COUNCIL OF SCIENTIFIC UNIONS

INTERNATIONAL BIOLOGICAL PROGRAMME

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SCIBP 67/67
Ref: 17.02/1
10 July 1967

To: Chairmen, IBP National Committees
Members of SCIBP

From: Scientific Director

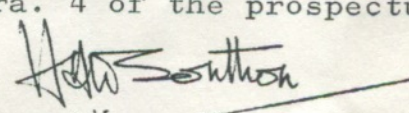
IBP Training Course in Bioenergetics
Warsaw and Cracow, Poland, 6-21 April 1968

The prospectus for an IBP Training Course in Bioenergetics is enclosed with this circular, and, as this is the first of such IBP training courses, a general note, addressed primarily to Chairmen of National IBP Committees, is appended.

It is envisaged that such IBP training courses will be financed as follows:

- a) Participants in the course. These would be proposed by national IBP committees, with a final selection by the IBP Section Committee arranging the course. National IBP Committees would be expected to meet the travel, subsistence and course expenses of the participants selected, from national IBP or other sources. For the Training Course in Bioenergetics, subsistence expenses should be at the rate of \$15 per day, i.e. \$225 for the period of the course.
- b) Staff and Administrative costs of the courses. It is intended that some central IBP funds should be available towards travel and subsistence expenses of lecturers and administrative and other overhead expenses at the host institution. It is hoped that the national IBP committee of the host country will also contribute to this category of expenditure.

National Committees are now requested, as a matter of urgency, to nominate candidates for the Training Course in Bioenergetics, in accordance with para. 4 of the prospectus.


pp. E.B. Worthington

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SECTION PT - PRODUCTIVITY TERRESTRIAL

IBP Training Course in Bioenergetics

Warsaw and Cracow, Poland
6 - 21 April 1968

INFORMATION SHEET

1. General

Following the suggestions of IBP Meeting on Secondary Productivity, Warsaw, 1966, PT Section is organising a Training Course in Bioenergetics. The aim of the course will be to provide an opportunity for learning how to measure, in the laboratory, the bioenergetic parameters necessary for the study of animal productivity.

The course will be held in Poland from April 6 - 21 1968. Two centres will be involved - Warsaw and Cracow.

Warsaw: Department of Experimental Hydrobiology, Nencki Institute of Biology, Polish Academy of Sciences. Local organiser - Dr. R. Klekowski.

Cracow: Department of Animal Genetics and Organic Evolution, Jagiellonian University. Local organiser - Dr. W. Grodziński.

The reason for using two centres is because those techniques most suited to invertebrates can be most easily demonstrated in Warsaw, whereas those most suited to vertebrates can be dealt with in Cracow.

2. Course content

During two weeks, approximately 75 hours of lectures and laboratory sessions, the following techniques will be discussed and demonstrated.

Bomb calorimetry - Adiabatic macro-bomb calorimeter and the methods of fat extraction (Cracow)
- Phillipson micro-bomb calorimeter (Warsaw)

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| Respirometers | - Cartesian diver (Warsaw) |
| | - Drastich-Klekowski respirometer (Warsaw) |
| | - Phillipson electrolytic respirometer (Warsaw) |
| | - Kalabukhov respirometer (Cracow) |
| | - Morrison automatic respirometer (Cracow) |
| Other methods | - Metabolic cages (Cracow) |
| (Food assimila- | - Excretion of radioisotopes (Warsaw) |
| tion and availa- | - Food preference and analysis of stomach |
| bility) | contents (Cracow) |

The materials would consist of animals ranging in body weight from 1 mg to 100 g, namely the invertebrates (*Oribatidae*, *Tribolium*, and *Orthoptera*) in Warsaw, and the vertebrates (sparrow, mouse, vole and possibly frog) in Cracow.

Detailed computations of daily energy budgets will be demonstrated using the flour beetle (*Tribolium*) and the vole (*Microtus*). Such computations can, if made over an extended period on different life stages, be applied to population data, thereby giving an estimate of energy flow through a population.

3. Methods handbook

It is suggested that mimeographed instruction leaflets should be prepared before the course, and after revision these might be published as a methods handbook.

4. Participation

All National Committees of IBP are encouraged to choose one or two candidates for the Course. The names of the candidates should be sent to the Scientific Co-ordinator of the PT Section (Dr. M. Hadley, c/o Professor F. Bourlière, Faculté de Médecine, 45 rue des Saints Pères, Paris 6e, France) as soon as possible. The PT Committee, under the chairmanship of Professor Bourlière, will select participants of the Course. A maximum of twenty participants can be accommodated. This will be achieved by forming two groups of ten persons; one group would spend the first week in Warsaw, whilst the other group would spend its first week in Cracow; after that one week the groups would change.

The participants should have a background in animal ecology and physiology. It is very important that all the participants are actively engaged in research on secondary productivity.

5. Instructors

The majority of lectures and laboratory sessions will be prepared by the Polish hosts, Dr. Klekowski and his co-workers in Warsaw, and Drs. W. Grodzinski, A. Drozd, and A. Gorecki in Cracow. Moreover, 2-3 foreign speakers will be invited, probably Dr. P.R. Morrison (USA), and Dr. J. Phillipson (UK).

The working language of the course will be English.

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6. Correspondence

All correspondence regarding the participation and the expenses of the course should be addressed to the Convener and Scientific Co-ordinator of the PT Section of IBP (Prof. F. Bourlière and Dr. M. Hadley, Faculté de Médecine, 45 rue des Saint Pères, Paris 6e, France.)

Correspondence on scientific matters, (e.g. the scope and content of the course) should be sent directly to Dr. W. Grodziński (Department of Animal Genetics and Organic Evolution, Jagiellonian University, Krupnicza 50, Cracow 2, Poland) or to Dr. R. Klekowski (Nencki Institute of Biology, Polish Academy of Sciences, Pasteura 3, Warsaw 22, Poland.)

The administrative secretary of the course will be Mr. J. Wiltowski, M.Sc., and future correspondence on accommodation and travel should be sent directly to him (Mr. J. Wiltowski, Cracow 2, Slawkowska 17, Poland.)

Note: This information sheet was prepared jointly by Dr. W. Grodzinski, Dr. R. Klekowski and Dr. J. Phillipson.