

UNIVERSITY OF ALLAHABAD

DEPARTMENT OF CHEMISTRY
(U. G. C. Centre of Special Assistance)

to

D. James P. Ferris

~~The~~ Editor.

The Journal of the International Society for the
Study of the Origin of Life.

Department of Chemistry,
Pensselaer Polytechnic Institute
Troy, N.Y. 12180

U.S.A.

Dear Sir, a full member of ISSOL. I am

I am herewith sending you paper, "The Energy
flow in the photosynergistically formed non-linear
Systems, Si-Mo Teewani: is more ~~so~~ efficient
under the conditions they are selforganised,"
for favour of publication in your journal.

I shall be thankful if you
give it a place in your periodical.

With regards

Yours sincerely
K

7/8/87

Prof. Krishna Bahadur

M.Sc., D.Phil., D.Sc., D.I.C. (Lond.)

Retd. Prof. & Head, Dept. of Chemistry

University of Allahabad (India)

Phone : 55832

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Allahabad-211002

6th Jan. 89

To whom ever it may concern

Dear Sir,

I am interested in the problem of Origin of Life so I wish to attend the VI meeting of ISSOL and IX Conference of Origin of Life to be held in Prague in July 1989. Interested to the limit that myself and my wife Dr. S. Ranganayak who is D.Phil and D.Sc. in Chemistry and is at present working as Reader in the Chemistry Dept. of Allahabad University have been investigating this problem since 1953 and starting from photochemical formation of amino acids in aqueous mixture using sunlight as source of energy in 1954, formation of peptide bonds in aqueous mixture in 1957, photochemical formation of amino acids involving nitrogen fixation in 195, preparation of JEEWANU the protocell in 1963 and its confirmation by M.H. Briggs in 1964 and 1965, formation of self-sustaining coacervates in 1970, detection of ferrioxin-like material in molybdenum Jeewanu in 1980 and nitrogenase-like properties in these protides in 1981, we have continued the work since last 35 years.

We have published about 70 papers on Origin of Life and more than 40 students have got their Doctorate working on some aspect or the other of the problem of Origin of Life under our guidance.

But I am sorry that a very few scientists know of

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of this work. So I wish to attend this conference, give a talk on the problem if desired and present some papers.

We may not know every thing happened to make such particles to begin with which grow from within, multiply by budding and have metabolic activity and can evolve but we can say it with certainty that Jeevanu are such particles. As observed by M.H. Briggs after working for about one year independent in England (1965) "In all probability particles like Jeevanu were formed in large number in the primitive oceans and were immediate precursors of cellular life."

I therefore will be thankful if you help me financially to come over to Prague and present our work, more particularly so because I have retired as Professor and Head of the Chemistry Dept. of Allahabad University in June 1986 and as you may be knowing it is difficult here as else where to get a travel grant after retirement.

With regards
Yours sincerely

Krishna Bahadur

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8.1.89.

Dear Dr. J. P. Ferris,

I wish to participate in ISSOL 1989 Conference at Prague in July 1989. I am a full member of ISSOL since last several years, I am herewith sending: 1. A copy of the abstracts of the papers to be presented ~~at~~ ⁱⁿ the conference. 2. A letter of the travel agent about the ~~estimated~~ ^{itemized} estimate of the ^{expense} budget required for the travel ^{from Allahabad to Prague and back} and a brief ~~&~~ statement indicating why my attendance at the Prague meeting will be appropriate is also attached under the title 'To whomsoever it may concern' ~~is attached herewith.~~

I shall be ~~#~~ extremely thankful if you help me in getting a travel grant from Allahabad to Prague and back from the David H. White Travel Fund and the ISSOL treasury.

With my best regards

Yours sincerely
Krishna Bahadur

Laboratory of Evolutionary Biology, Cz. Acad. Sci.

Na Folimance -11

Prague - 2

Czechoslovakia

Dear Prof. Vladimír J. A. Novák,

I have ~~received~~ ^{with the att.} the information concerning the ISSOL 1989 which at Prague and have sent the abstracts of our papers to be presented in the Prague conference to Dr. Zdeněk Masinovsky. The titles of the ~~abstract~~ papers are:

1. The energy flow in photosynthetically formed Nonlinear systems, Si-Mo Teewann is more ~~stable~~ efficient under the conditions they are synthesised.
2. Atrosymbiosis or molecular symbiosis, Synergistic Collaboration processes, an essential earlier stage in origin of life.
3. Characteristic nonbrownian motion in the Teewann, the model of the Protocells.
4. Microfossils, Biogenic or Abiogenic

Had I have returned and it will help me considerably if ^{you grant for} ~~me to~~ travel ~~and~~ and stay in Prague for the period of the Conference. I will be extremely grateful if you can ~~also~~ recommend ~~me~~ help me in this matter.

With my best wishes

29.50	29.50	48.00	5.50	5.89	66.00	309.00
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Yours sincerely
K.

8/1/89.

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JAMES P. FERRIS, *Editor*

ORIGINS OF LIFE

Department of Chemistry
Rensselaer Polytechnic Institute
Troy, NY 12181, U.S.A.



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Dr. J. P. Ferris - Chemistry
RENSSELAER POLYTECHNIC INSTITUTE
TROY, NEW YORK

2-05141.481

FIRST CLASS



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VIA AIR MAIL

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ORIGINS OF LIFE

The Journal of the International Society for the Study of the Origin of Life

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February 1, 1984

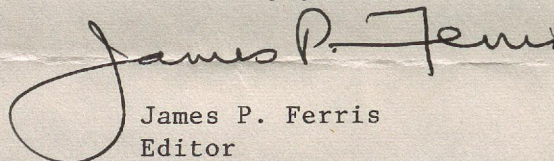
Dear Dr. Bahadur:

I referred your manuscript for the 7th ICOL proceedings, all the supporting data you included in your letter of January 4 and your letter of January 4 to Dr. N. W. Pirie as per your request. His comments which are pertinent to your manuscript were extracted from his letter to me and are enclosed. I believe that Dr. Pirie's comments echo those of the original referee of your manuscript.

I will be willing to consider your work for publication as a regular paper in Origins of Life if you take seriously the direction of the first referee, Dr. Pirie and myself in its preparation. I should point out that I sent your manuscript to the first referee because in the course of my discussion with him about another subject he expressed the opinion that you might have an interesting system. What I am saying is that he is not a hostile referee. The problem is you are not presenting your work in a way that is acceptable for an objective scientific study. I strongly urge that you use the style of the Journal of the American Chemical Society if you decide to rewrite this article. I will send it again to the first referee to see if he feels it meets the standards for Origins of Life as well as a second referee before reaching a decision on it.

Thank you for your continued interest in Origins of Life.

Sincerely yours,



James P. Ferris
Editor

JPF:sm
Enclosure

Comments of N. W. Pirie on "Synthesis of Jeewanu, the Protocells and Study of Their Functional Properties"

"He (Bahadur) said it all before. What is clear from his letter is that he does not understand why Ph.D. theses are not satisfactory references. Refereeing has nothing to do with it - referees can be as silly as anyone else. The point is unavailability. One can find a journal and so see just what the author thinks was done. You can't find these.

Bahadur is probably on to something... So I think you might ask Bahadur to let you have an article with all the stuff about H₂ as a fuel and the Rig Veda cut out summarizing what he has observed and with references to accessible papers only."



School of Science
Department of Chemistry

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January 31, 1989

Prof. Krishna Bahadur
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Thank you for your application for a travel grant to attend the 1989 ISSOL meeting in Prague. As noted in the announcement, the travel grants are for young scientists who are ISSOL members. If you are not an ISSOL member you must have a valid application on file with the Secretary (Dr. D. DeVincenzi - Mail Stop 239-11, NASA Ames Research Center, Moffett Field, CA 94035) to be considered and approved for membership before the grant will be awarded.

Your application will be evaluated by an international committee and I expect the review process will be completed by March 15, 1989. I hope to be able to give you our decision at that time.

Sincerely yours,

A handwritten signature in cursive script that reads "James P. Ferris".

James P. Ferris
Chairman, ISSOL
Travel Grants Committee

JPF:sm

ISSOL

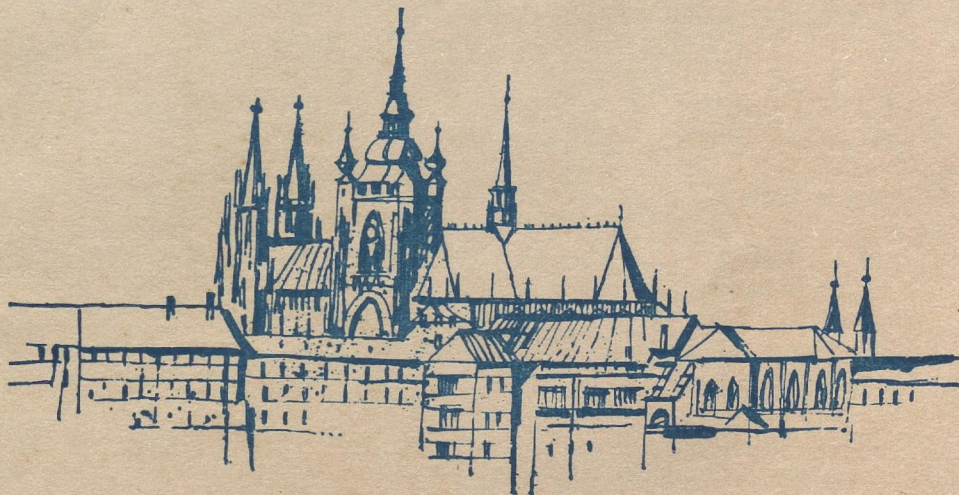
International Society for the
Study of the Origin of Life

LEB

Laboratory of Evolutionary Biology
Czechoslovak Academy of Sciences

**THE SIXTH ISSOL MEETING
AND
THE NINTH INTERNATIONAL CONFERENCE
ON THE ORIGIN OF LIFE**

HOST: Czechoslovak Academy of Sciences



Prague, Czechoslovakia, July 3 - 8, 1989

First Circular
February 1988

LOCAL ORGANIZING COMMITTEE

Under the auspices of Academician Vlastimil Baruš, vice-president of the Czechoslovak Academy of Sciences

Co-Chairmen

Prof. Vladimír J. A. Novák
Laboratory of Evolutionary
Biology, Cz. Acad. Sci.
Na Folimance 11, Prague 2

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Institute of Animal Physiology
Cz. Acad. Sci.
Bratislava

Dr. Karel Zemek
Laboratory of Evolutionary
Biology, Cz. Acad. Sci.
Prague

According to the decision of the Council of the International Society for the Study of the Origin of Life the 6th ISSOL Meeting and the 9th International Conference on the Origin of Life will take place during July 3 - 8, 1989 in Prague, Czechoslovakia.

SCIENTIFIC PROGRAM

The problems of the origin of life (we also use the term **protobiology**) are supposed to be discussed in a general evolutionary context.

The following topics are suggested:

1. Chemical evolution leading to the origin of life
2. Models of prebiotic systems
3. Origin of the autoreplicating systems and the genetic code
4. Early evolution of the main biological mechanisms
5. Evolution of cell structure (prokaryotic and eukaryotic)
6. Geological and paleobiological record of early organisms
7. Space research and the problem of the origin of life
8. General evolutionary aspects of protobiology

These topics will be discussed in the frame of **invited lectures** (30 min including discussion), limited number of **oral presentations** (15 min including discussion), and **poster session** as a main form of presentation of experimental results.

Special attention will be paid to the organization of the poster session. The posters are supposed to be arranged according to the individual topics (problems). Each such group will be headed by a moderator to whom the abstracts of the respective posters will be submitted in advance and who will organize the discussion of all interested participants. Sufficient time will be devoted to this purpose during the conference.

The following evening discussions (**round-tables** and/or **panels**) will be prepared:

- Conditions on the primitive Earth
- Prebiotic catalysis: proteins or RNAs?
- The role of solar energy in the origin of life and early evolution
- The significance of protobiological data for understanding biological evolution

Further suggestions concerning the topics of the Conference and the subjects for the evening discussions will be welcome.

PUBLICATIONS

Proceedings of all abstracts (2 - 3 pages) will be published by the LOC and will be distributed to the participants at the registration (similarly as at the previous conferences). The abstracts will be also published as a special issue of the ISSOL journal, **Origins of Life**. Full papers will be handled by ISSOL, probably in the journal *Origins of Life*. The Second Circular will include all necessary information concerning publications.

LANGUAGE

The official language of the Meeting will be English. No simultaneous translation will be arranged.

GENERAL TIME-SCHEDULE

The LOC will do its best to have only one session at a time (without parallels) and to pay sufficient attention to the posters. A 6-days program of the Meeting (from Monday, July 3 till Saturday, July 8, 1989) with a half-day excursion on Wednesday, July 5 will be arranged. The arrival day will be on Sunday, July 2.

PARTICIPANTS AND PARTICIPATION FEES

In agreement with the ISSOL regularities the Meeting will be open to bona fide scientists from all countries. All information concerning visas and other formalities will be sent to the participants with the Second Circular.

Participation fees should be 150, 200, 85 and 85 US \$ for the ISSOL members, non-members, young scientists (up to 33 years of age) and accompanying persons respectively. The fees will be also payable in Czechoslovak crowns (1 US \$ to be calculated as 10 cz. crowns).

LOCATION

Campus of the College of Agriculture, Praha-Suchdol. The place provides suitable conditions for accommodation, meals, and all activities of the Meeting in one location.

ACCOMMODATION

In comfortable student hostels in two double-bedded room units with a bathroom. There are two rooms in one hostel unit. Each room with a kitchenette is for two people, and a bathroom with 1 WC, 1 shower, and 2 wash-bowls is thus for 4 persons. The price for one bed is 15 US \$ per night*). For those who will prefer a single accommodation a whole room (but not a unit) can be reserved for about 35 % higher price. Hotel reservations will be made by the LOC in advance in the first class hotel International which is the closest one to the campus (about 20 min by public bus). The price for a single occupancy is about 50 US \$, for a double occupancy about 75 US \$ per night. **No special transportation from the hotel to the campus will be arranged!**

MEALS

Breakfast, lunch and dinner in a student cafeteria (ca 8 US \$ per day).

*) Present-day price here and below

SOCIAL EVENTS

- Welcome party at the first day of the Meeting (free of charge)
- Half-day excursion out of Prague to enable personal contacts and unofficial discussions (free of charge)
- The farewell banquet (for an extra price of 20 US \$)
- 3-days „post-meeting journey“ through Czechoslovakia (for an extra price of 180 - 200 US \$ including transportation, accommodation, meals and program)
- 6-days accompanying persons program in Prague and other places in Czechoslovakia (included in the participation fee)

CIRCULARS

The second circular will be distributed to prospective participants by November 1988, the third - in May 1989.

CORRESPONDENCE

All correspondence concerning the Meeting should be sent to Dr. Zinovij Masinovský

Dr. Zinovij Masinovský

Co-Chairman, ISSOL LOC

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