



DATE... 9th November, 1978...

Prof. Edith A. Muller,
General Secretary, IAU,
c/o Observatoire de Geneve,
1290 Sauverny,
Switzerland.

Dear Prof. Muller,

Thank you for your letter of 21 September 1978 which came shortly before my departure to the United States on a Nigerian Government delegation to Washington to negotiate technical aid matters. Since my return towards the end of October, I have been rather busy catching up on postponed lectures as well as other administrative chores.

The sum of SF5100 which you instructed the Union des Banques Suisses to send to me amounted to ₦1971.54 in Nigerian currency and the expenditures were as follows:-

1. Local transportation and out of pocket expenses for guest lecturers	₦174.55
2. Honorarium (in local currency) to School lecturers	₦584.00
3. Responsibility allowance to school president	₦250.00
4. Other expenditures	₦539.62
Total =	<u>₦1552.67</u>

The balance is, therefore, ₦418.87 or approximately U.S. \$600. This balance, cannot, however be transferred to you on the basis of a simple instruction to my bankers. Our foreign exchange regulations require that an application be made to the Central Bank of Nigeria, for prior approval to cover the transfer. The process usually takes about two to three months. I shall soon lodge the necessary application through my bank.

I enclose herewith the breakdown of the above expenses. The relevant receipts are available and will be despatched to you if you so request.

I wish to take this opportunity to thank, through you, the IAU for the generous financial support it gave to the first ISYA ever to be held in Africa. My only regret is that we overshot the designated subvention somewhat.

I shall in due course send you a comprehensive report of the Nigerian ISYA.

Meanwhile best wishes.

Yours sincerely,

Prof. S. E. Okoye
Director, 1978 ISYA.

cc: Prof. J. Kleczek.



DATE... 9th November,1978

FINANCIAL STATEMENT ON THE UTILIZATION OF ₦5,100.--
MADE AVAILABLE BY THE I.A.U. IN SUPPORT OF LOCAL
EXPENSES IN RESPECT OF THE 1978 INTERNATIONAL
SCHOOL FOR YOUNG ASTRONOMERS HELD AT THE UNIVERSITY
OF NIGERIA, NSUKKA FROM 31 JULY 1978 TO 19 AUGUST 1978

1. Local Transportation and out of pocket expenses for guest lecturers.

(a)	Out of pocket expenditure and mileage (Lagos/Nsukka/Lagos) allowance paid to Dr E.F. Schmitter (University of Lagos)	₦108.60
(b)	Mileage allowance (Enugu/Nsukka/Enugu on three occasions) paid to Prof. D.M.J. Fubara (University of Nigeria, Enugu Campus)	₦ 27.00
(c)	Mileage allowance for local runs paid to Dr. C.H. McGruder III (University of Nigeria, Nsukka)	₦38.95
	sub - total -	<u>₦174.55</u>

2. Honorarium (local currency) to school lecturers:

Prof. J. Kleczek (advance)	₦30.00
Prof. G. Swarup (advance)	₦30.00
Prof. H. Hubenet (advance)	₦20.00
Prof. D.M.J. Fubara (full payment)	₦70.00
Prof. S.E. Okoye (full payment) ..	₦150.00
Dr. E.F. Schmitter (full payment)	₦104.00
Dr. C.H. McGruder III (full payment)	₦180.00
Sub - total	<u>₦584.00</u>

3. Responsibility allowance to School President ₦250.00

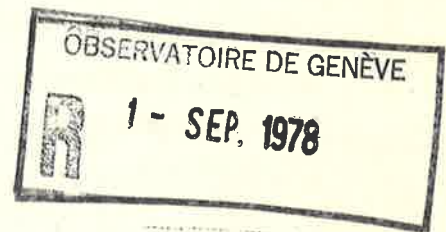
4. Other Expenditure:

(a) Production of name badges for ISYA participants	₦32.00
(b) Production of 'Astronomical Glossary' for ISYA participants	₦60.00
(c) Stationery for ISYA participants	₦35.52
(d) Production of School sign posts	₦17.00
(e) Official reception party for ISYA participants and other guests	₦70.55
(f) Purchase of instructional materials for the practical astronomy course	₦12.70

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August 28, 1978

Dr.E.Müller,
Dr.P.A.Wayman,
Dr.E.Kononovič,
Dr.D.Wentzel,
Dr.L.Houziaux,
Dr.D.McNally
Dr.S.Okoye



Preliminary report on the 9th International School for Young Astronomers, 1978 (University of Nigeria, Nsukka; from 31.7 to 19.8).

Subject: General astronomy and astrophysics with intense practical training(Spherical astronomy - 5 hrs; Planetary system - 5 hrs; Solar physics - 10 hrs; Solar energy utilization- 10 hrs; Stars and galaxies - 15 hrs; Structure and evolution of the universe - 15 hrs; Practical astronomy - 28 hrs; Seminars and General discussions - 14 hrs).

Lecturers: Dr. D.Fubara, Dr.J.Kleczek, Dr.S.Okoye, Dr.G.Swarup, Dr.H.Hubenet, Dr.C.McGruder, Dr.E. Schmitter.

Participants: 28 physicists (lecturers and professors) from Kenya, Ghana, Tanzania, Nigeria.

Purpose: Introduce astronomy into Black Africa - both as science and as a teaching subject in schools.

- According to a general opinion , the School fulfilled its purpose:
- a) Department of Astronomy (the first in Black Africa) has been formed at the University of Nsukka, headed by Professor Sam Okoye. Regular courses of Astronomy will start this autumn.
 - b) Possibilities of an equatorial radiotelescope (a common project of several countries) have been discussed.
 - c) Cooperation between different African universities discussed.
 - d) Future trends of astronomy development in Black Africa have been the subject of General discussion at which participated all the lecturers and all the participants.
 - a) Many individual problems have been settled during meals, breaks and excursions. Most of the time, lecturers and participants were together.

- f) The participants have learnt much and with ease (being physicists), most of them became very interested in astronomy and they have appreciated the opportunity to participate at the School
- g) I would like to recommend four participants as Corresponding members of our Commission 46 (from Tanzania, Ghana, Kenya and Nigeria).
- h) Thanks to the full support from the Utrecht Observatory and before all thanks to Dr. Hans Hubenet, Practical Training became the most important part of the School. Dr. Hubenet was assisted by Dr. E. ~~Smith~~ Schmitter (from Mexico - at present teaching at Lagos University) and by Dr. C. McGruder (from Philadelphia - at present teaching at Nsukka). Kleczek lead 4 hours of Practical Training.
- i) Many films were projected and commented.
- j) This was the most busy School we have had untill now. The program was very crowded and exhausting for participants and lecturers as well. But it was excellently organized by the School President Professor S.Okoye. According to the opinion of lecturers and participants it was worthwhile.

Without the generous support of the University of Nigeria, Nsukka and without the full support of the ex-president of Nigeria Right Honorable Dr. Nnamdi Azikiwe and without the enthusiasm and effort of Professor Okoye the School would be impossible.

You will receive a Final Report (with the Time Schedule of the School activities, with the List of Lecturers and participants and their addresses, with the Financial Report etc.) from the School President as soon as he returns from abroad to Nsukka.

Any your comment will be appreciated.

With best regards

Josip Kleczek
Dr. Josip Kleczek
Astronomical Institute
251 65 ONDREJOV
Czechoslovakia

INTERNATIONAL SCHOOL FOR YOUNG ASTRONOMERS

LIST OF LECTURERS:

ADDRESSES:

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| 1. Professor Samuel E. Okoye | Department of Physics, University of Nigeria, Nsukka, Nigeria. |
| 2. Professor Josip Kleczek | Astronomical Institute, 25165 Ondrejov Czechoslovakia. |
| 3. Professor D.M.J. Fubara | Department of Surveying, University of Nigeria, Enugu, Nigeria. |
| 4. Professor Govind Swarup | Radio Astronomy Center (of Tata Institute of Fundamental Research) Post Box 8, Ootacamund 643001, India. |
| 5. Dr. Charles H. McGruder, III | Department of Physics, University of Nigeria, Nsukka, Nigeria. |
| 6. Dr. Hans Hubenet | Astronomical Observatory, Zonnenburg 2, Utrecht, The Netherlands. |
| 7. Dr. E.F. Schmitter | Department of Physics, University of Lagos, Lagos, Nigeria. |

LIST OF CANDIDATES:

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| 1. Adesanya, Solomon; I. (Mr) | Badagry Grammar School, Lagos State, Nigeria. |
| 2. Adibe, Nathaniel C. (Mr) | Department of Physics, University of Nigeria, Nsukka, Nigeria. |
| 3. Addoli, Kofi Philip (Mr) | Department of Physics, University of Ghana, Legon Accra, Ghana. |
| 4. Afolayan, J.A. (Mr) | Girl's Secondary School, Illorin, Kwara State, Nigeria. |
| 5. Aka, Edwin U. (Mr) | c/o G.I. Aka, Nigerian Cement Company Nkalagu, Box 331 Enugu, Nigeria. |
| 6. Akujor, Chide Emmanuel (Mr) | NYSC Secretariat, Bauchi State, Nigeria. |
| 7. Alao, I.A. (Mr) | A.A.A.M.C. Okene, Kwara State, Nigeria. |
| 8. Amaeshi, Lawrence L.N. (Mr) | Department of Physics, Legon, Ghana/Plot 22 John Olugbo St. Ikeja Legos, Nigeria. |
| 9. Chendo, Michael A.C. (Mr) | Department of Physics, University of Lagos, Lagos, Nigeria. |
| 10. Ekpenyong, Boniface E. (Mr) | Department of Physics, University of Calabar, Calabar, Nigeria. |
| 11. Ezra Kirunda (Dr) | c/o Maths Department, University of Nairobi, Box 30197 Kenya. |
| 12. Ezeugwu, John Mookelu (Mr) | Department of Physics, University of Nigeria, Nsukka, Nigeria. |
| 13. Jiwaji, Noorali T. (Mr) | c/o Department of Physics, University of Dares-Salaam P.O. Box 35063, <u>DSM</u> Tanzania. |

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| 14. Menkiti A. (Dr) | Department of Physics, University of Calabar, Calabar, Nigeria. |
| 15. Momegha, Peter Odili (Mr) | Department of Physics, University of Nigeria, Nsukka, Nigeria. |
| 16. Nabate, Mohammad Mallam | Government Secondary School, Kazaure, Nigeria. |
| 17. Nwosu, Bertrand Azubike (Mr) | Girls' Secondary School Ngwo, Anambra State, Nigeria. |
| 18. Nzekwe, P.S. (Mr) | Obieze Palace, Ossomari, Nigeria. |
| 19. Obiegbonam Amaechi (Mr) | 328 Okeke Hall, University of Nigeria, Nsukka, Nigeria. |
| 20. Okeke, Chidozie Victor (Mr) | Department of Physics, University of Nigeria, Nsukka, Nigeria. |

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INTERNATIONAL SCHOOL FOR YOUNG ASTRONOMERS

LIST OF CANDIDATES:

ADDRESSES:

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| 21. Okeke Pius (Dr) | Department of Physics, University of Nigeria,
Nsukka, Nigeria. |
| 22. Okeke, F.N. (Mrs) | Department of Physics, University of Nigeria,
Nsukka, Nigeria. |
| 23. Okuagu R.A. (Mr) | Room 116 A1 Franco Hostel, University of
Nigeria, Nsukka, Nigeria. |
| 24. Okwuosa, E.A. (Mr) | Department of Economics, University of
Nigeria, Nsukka, Nigeria. |
| 25. Osuji, Chinyere Ada (Miss) | C.M.S. Church, Amandugbe, Imo State,
Nigeria. |
| 26. Ozoemena, P.C. (Mr) | Central School, Inyi, c/o Inyi P.A.,
Via Awgu, Anambra State, Nigeria. |
| . Ukabiala, Benneth J. (Mr) | Government Secondary School Kazaure,
Kano State, Nigeria. |
| 28. Onyeogu, E.O. (Mr.) | 8 Ogunbiyi Lane, Ogui-Enugu, Nigeria. |

