

THE
SCAS
Clipboard

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MOLECULAR SCIENCES LABORATORY
STAFF CONFERENCE

Chief of Scientific Personnel Prof. L. C. Marshall reports on a series of conferences this week aimed at early activation of the S C A S Molecular Sciences Laboratory.

In attendance at the conferences are: Prof. Carsten Bresch, head of the Laboratory's division of Genetics; Prof. Daniel L. Harris, executive officer of the Lab; Profs. Walter Harm and C. S. Rupert of the division of Genetics; Dr. Peter Knolle, Max Planck Institut für Vergleichende Erbbiologie und Erbpathologie, Berlin Dahlem, W. Germany; visiting professor; Dr. Rudolf Hausmann, visiting professor of the Albert Einstein College of Medicine, New York, and Dr. Corrado Baglioni, visiting professor of the Laboratorie Internazionale de Genetica et Geophysica, Naples, Italy.

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CENTER HAS NBS VISITORS

Dr. W. Calvert, Mr. Jan Hugill, and Mr. Marshall Field of the Central Radio Propagation Laboratory, National Bureau of Standards, Boulder, Colorado, were visitors of DASS Profs. Jules A. Fejer and Walter J. Heikkila, Monday and Tuesday, August 10 and 11.

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NEW DASS FACULTY NAMED

Prof. Francis S. Johnson, DASS head, has announced appointment of Dr. Carl B. Collins, Jr., as assistant professor in his division.

Prof. Collins, who comes to SCAS from the position of instructor in physics at The University of Texas, has also been carrying out post-doctoral research at Texas.

Born in San Antonio, he attended high school in that city, graduating in 1957 with a straight "A" record. He entered The University of Texas that year.

In 1960, having completed the normal four-year course in three years, he graduated with High Honors, receiving the B.S. in physics. His undergraduate years also found him elected to the Freshman Honorary Fraternity, Phi Eta Sigma, the Physics Honorary Fraternity, Sigma Pi Sigma, and Phi Beta Kappa.

The summer of 1960 he entered the Graduate School of The University of Texas and specialized in experimental atomic and molecular physics. He was awarded a Woodrow Wilson Fellowship in the autumn of 1960, and a National Science Foundation Co-operative Fellowship in 1960, 1961, and 1962.

(Continued on page 3)

PROF. PLASS TO ATTEND
CAMBRIDGE SYMPOSIUM

Prof. Gilbert N. Plass, Atmospheric and Space Sciences division, will attend the international Symposium on Combustion, August 17-22, at Cambridge University, England, en route from Leningrad, USSR.

In reporting that he will participate in all scientific sessions of the meeting, Prof. Plass made particular note of the main evening banquet, which is to be held in ancient Woburn Abbey, near the university town.

Woburn, ancient seat of the Dukes of Bedford, one of whom carried out many diplomatic missions for Elizabeth I -- still carries "a dark link with the old days" -- a huge tree known as Abbot's Oak: the last Abbot of Woburn was hanged from its branches in the 16th century for having spoken in public against the marriage of Henry VIII and Anne Boleyn.

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DR. RAO TO ADDRESS
OPTIMIST CLUB

Dr. U. Ramachandra Rao, DASS cosmic ray physicist, will address the Friday, August 11 meeting of the Town North Optimist Club. Held at the Lucas B & B restaurant at noon, the meeting will hear the scientist discuss "Cosmic Ray Safaris to the Arctic." Dr. Rao holds the Ph.D. from the University of Gujarat, India.

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DASS SCIENTISTS TO ATTEND
BOULDER SYMPOSIUM

A group of DASS scientists, headed by Prof. Francis S. Johnson, DASS chief, will attend the Symposium on Ultra Low Frequency Electromagnetic Fields (from 30 c/s to 0.001 c/s) to be held in Boulder, Colorado, August 17-20.

Profs. William B. Hanson, Jules A. Fejer, Harold B. Liemohn, visiting Prof. Alexander A. J. Hoffman, Dr. Olav Holt, and visiting scientist Arthur W. Green, will attend the meeting, which has been arranged by the National Bureau of Standards Central Radio Propagation Laboratory and the National Center for Atmospheric Research. The meeting is under the co-sponsorship of the American Geophysical Union and the Office of Naval Research.

Among the speakers who will address the symposium will be Prof. Alexander J. Dessler, formerly of DASS, now chairman of Rice University's department of Space Sciences.

Covered by the symposium will be such subjects as composition and dynamics of the magnetospheric boundary, the magnetosphere and the ionosphere; magnetospheric resonances, hydromagnetic propagation, ionospheric perturbations, earth-ionosphere cavity oscillations in the 5 to 30 second period to 7 minute period range, and other subjects. Contributed papers on recent results in these fields will also be given.

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QUOTE: "...mathematics is concerned not with (physical) existence, but only with the possibility of existence." --
Bertrand Russell

COLLINS (From page 1)

SPHENICIDAE



Think cool with members of the bird expedition in Antarctica.

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NIKE APACHE
INSTRUMENTATION

Work in the upper atmosphere composition laboratory goes forward. One of the principal investigators, Thomas W. Flowerday, reports that his group is working on flight circuit boards -- that they are now building the actual flight instruments.

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After one year of study he was awarded the degree of Master of Arts in June, 1961. Within two more years he received the Ph.D. in physics in June, 1963 at Texas, where he had maintained a 3.0 average throughout graduate school.

Following the award of the Ph.D., Dr. Collins was elected to full membership in Sigma Xi, the graduate research fraternity.

His research has been in binary collision processes involving metastable and ionic rare gas species with other atomic and molecular species. A second course of Dr. Collins' investigation has been into the mechanisms of ion-electron recombination processes.

Papers authored and co-authored by Dr. Collins have appeared in such publications as the Journal of the American Chemical Society, Spectrochimica Acta, Proceedings of the Sixth International Conference on Gaseous Ionization (Paris), Proceedings of the Third International Conference on Electronic and Atomic Collisions (London), the Journal of Chemical Physics, and others.

He has also presented papers at the Sixth International Conference on Gaseous Ionization at Paris, and the Sixteenth Annual Gaseous Electronics Conference at Pittsburgh.

Prof. Collins is married to the former Annabelle Lane of Dallas. They are parents of one child.

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A NEW ALLIANCE...

"The Sciences and the Arts" --
a new book written by Harold
Gomes Cassidy.

"A balanced response to science
and art can come only when people
do not fear science but understand
it." -- Cassidy.

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SING A SONG OF SCIENCE
(John Donne is Full of Wry)

Let us ionize a star
Repair, perhaps, a psychic
scar,
Lase a sparrow from afar,
Try sleeping in a turbo-car.

Teach us to hear the cosmos
ringing,
Tune to chauvinistic
singing,
To find
What kind
Defines an a priori mind.

Let us recreate the star
Read spectroscopes on
Palomar,
Preserve a kidney in a jar
Go drinking in a millibar.
-- John Updike
(with apologies)

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QUOTE: "If you inquire what the
people are like here, I must
answer, "The same as everywhere!"
-- von Goethe

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THE PIERIAN SPRING

"Speech, like music, is acquired
by ear. Therefore, let us put aside
the book. . . Grammar serves only
to correct mistakes -- and the dic-
tionary only assists us to recall
words. . . One principle must guide
the teacher of a foreign language --
HE MUST NEVER SPEAK ENGLISH." --

Heness

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DICTA IN LEARNING A FOREIGN LANGUAGE

1. Language consists not of
letters but of sounds -- through the
sounds of the foreign language the
road must lead to the speaking of
that language. NOT through the eye
but through the ear the foreign
language must come.

2. Living language consists NOT
of isolated words, but of sentences
full of meaning.

3. LIVING LANGUAGE CANNOT BE
LEARNED THROUGH GRAMMAR AND TRANS-
LATION. It should be learned as a
child learns its mother tongue.

4. Grammar should be taught ONLY
inductively -- in fact, the pupils
should make their own grammar and
must be made to think in the language
they are studying. -- Dr. Wilhelm
Viëtor, Univer-
sity of Marburg

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For the teacher who espouses the
above method it becomes useless to
continue written lessons -- Since it
is impossible to pursue the method
in this column -- it is forthwith
discontinued, the Russian language
column, that is -oOo-