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PROFESSOR-ON-LEAVE, FORMER FACULTY MEMBER REPORT
RESEARCH IN VISITS TO SCAS

Experiments in X-ray astronomy and "whistler" radio signals are currently being reported back to the Southwest Center for Advanced Studies by two visitors.

Dr. Harold B. Liemohn, former Atmospheric and Space Sciences faculty member now at the Geo-Astrophysics laboratory, Boeing Scientific Research Laboratories, Seattle, Wash., will conduct a Friday seminar (Feb. 14) on "Whistler Dispersion and Amplification in the Magnetosphere."

Dr. Kenneth G. McCracken, professor-on-leave from the same division, has been here to exchange cosmic ray research information with the SCAS' group. Professor McCracken is now conducting research and teaching at the University of Adelaide, South Australia.

A high-altitude balloon flight from Mildura, Australia, is planned for the near future, Professor McCracken said, with interest centered on X-ray radiation from stellar objects.

Dr. Jon G. Ables, Oklahoma State University graduate who completed his doctoral research requirements at the SCAS, is assisting in the Adelaide program. He currently is making observations of Scorpius X-1, the strongest source of X-ray radiation in the southern skies. Doctor Ables has detected steady radio emissions from the same source, but at varying intensities from hour to hour. Whether a form of "pulsar" is combined with the X-ray source is under investigation.

The observations are being made at Parkes, New South Wales, using the 210-foot radio telescope operated there by the Commonwealth Scientific and Industrial Research Organization (CSIRO).