Announcement

Postgraduate Summer School

Remote Sensing Applications in Civil Engineering

University of Dundee

19th August–8th September 1984

The school is intended for postgraduate students, postdoctoral workers, consultants and practising engineers and environmental scientists, and teachers in institutions of tertiary education. The emphasis will be on teaching engineers about remote sensing techniques and how to use them.

The subject matter of the summer school will start by covering the general principles of remote sensing, the acquisition, processing and interpretation of data. After this, detailed consideration will be given to the various important areas of application of remote sensing techniques that are particularly relevant to people working on engineering and environmental problems. Scientific principles of the methods involved will be considered, but only as far as necessary for participants to understand the basic principles of operation of the instruments and techniques used. This will be essentially a course on the applications of remote sensing. The objective of the course will be to take postgraduate students, young academic workers and practising engineers who have only recently qualified and to give them a thorough grounding in the principles of remote sensing and to show how these principles can be applied to problems of relevance to engineers and environmental scientists.

Topics covered will include: the physical basis of remote sensing; remote sensing systems; data reception, archiving and distribution; data processing and interpretation; corrections to imagery; space cartography and survey; rural land use; geological prospecting; urban development and land use; industrial waste land; coastal engineering; pollution monitoring; snow and ice; bathymetry.

The format will be similar to the format which has been used very successfully in previous postgraduate summer schools on remote sensing held in Dundee in 1980 and 1982 respectively. In addition to the programme of formal lectures there will also be a substantial programme of practical work to give hands-on experience in processing and interpreting remote sensing data. This practical work will involve both working with photographic materials and hard-copy digital print-outs and also working with digital data on a computer and an image display system. In addition to these two forms of exercises which would be carried out on most days, one or two field trips and scientific visits would be arranged.

Some bursaries may be available to assist students to attend.

Further particulars and application forms may be obtained from:

Dr W. M. Young, Carnegie Laboratory of Physics, University of Dundee, Dundee, DD1 4HN, Scotland.

(Sponsored by the Science and Engineering Research Council).