

- C4. Materials Division,
Berkeley Nuclear Laboratories,
Central Electricity Generating
Board,
Berkeley, Glos.
Tel. Berkeley 451.
ext. 24
- Properties of materials which have had krypton 85 incorporated into them by diffusion techniques.
D.A. Hilton
J.H. Buddery
- Nimonic pressure vessel, working volume 3 cc.
Pressures up to 3.5 kb at 500°C.
- C5. Central Electricity Generating
Laboratories,
Cleeve Road,
Leatherhead, Surrey.
Tel. Leatherhead 4488.
- Aqueous corrosion of iron and steel under supercritical conditions.
Electrochemical measurements (electrode kinetics, emf measurements, diffusion studies).
Properties of water (solubilities of salts and oxides, ionic equilibria, crystallisation phenomena, P-V-T studies, spectroscopic studies).
Hydrothermal deposition of salts on metal surfaces from super-critical fluid.
H.G. Masterson.
- A large range of autoclave equipment is in use enabling corrosion, electrochemical and solubility measurements to be made. In addition, a Nimonic unit capable of producing 20 lbs/hr of super-critical fluid up to 700°C and 1 kb is under construction.
Also used is a model boiler rig capable of studying corrosion of steel tubes under heat transfer conditions.
- C6. Chas. W. Cook and Sons Ltd.,
97 Walsall Road,
Perry Bar,
Birmingham 22B.
Tel. Birmingham 4223.
- Design and manufacture of high pressure apparatus.
Autoclaves and pressure vessels working to pressures of 500 bars and temperatures up to 500°C.
Ageing bombs for rubbers, etc.
Bomb calorimeters for fuel determinations.
- D1. Engineering School,
Trinity College,
Dublin 2,
Republic of Ireland.
Tel. Dublin 72941.
ext. 433, 437, 438.
- Investigation of dielectric properties of liquids and solids under high pressures. In particular (i) Dielectric properties of n-alkanes, CS₂, Water, Glycerol, Eugenol, Ether, Alcohols (methyl, ethyl, etc.) (ii) Dielectric constant of Alkali Halide Single crystals.
W.G.S. Scaife
B.K.P. Scaife
- Pump (designed and built by Prof. B. Crossland) giving pressures up to 8 kb. Temp. range -30°C → 100°C. Working volume, cylindrical, length 10 cm., dia. 2 cm. Frequency range 20Hz → 10MHz.

