. . (1) Strain Gauge Experiments

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As a result of technical contacts with Prof., John
Hasted, Birkbeck College, University of London, during an Iceland
Conference on Physics and Parapsychology, we have developed an interest
in attempting to confirm his claim<sup>24,25</sup> that he has observed inelastic
and elastic deformations of metal bars by some kind of remote human
interaction. During these experiments the subjects are reported to
cause effects without any physical contact with the metal.

In an effort to replicate Frof. Hasted's results, we have constructed an electrically shielded exclosure having more than 135 dB RF attenuation from 18 kHz to 10 MHz and plexiglass sides (to shield against air currents). Within this enclosure is an experimental system of resistive strain gauges attached to a thin metal bar. These are wired as a temperature-compensating bridge and connected to batteryoperated amplifiers and recording instruments. At present we can detect changes in the length of the par on the order of 500 angstroms and applied transverse forces of approximately 100 mg. To date, we have been successful in isolating and correcting several sources of artifact, and have obtained hours of artifact-free baseline operation. All of the data will be magnetically recorded for later computer analysis, and a simple stripchart record will provide immediate feedback to the subject of any changes in the bar. We are encouraged with the progress of artifact isolation, and we propose to begin to task subjects to attempt to perturp the isolated metal bar.

Should experimentation reveal genuine subject induced perturbations, we propose to determine whether such effects can be used as a message-transmission device (remote telegraph).

## (2) Random Number Generator Experiments

Another class of experiments that have been extensively reported are those that involve alleged human/machine interaction with electronic random-number generators. In these experiments, digital electronic noise derived either from a thermal noise source or from the decay of a radioactive material is monitored while a subject is attempting to after the statistical properties of the noise distribution.