#### PYROLYSIS-GAS CHROMATOGRAPHY

I. Instrument Name: JHP-22 Curie Point Pyrolyzer with Hewlett Packard 5890 Series II Gas Chromatograph

### II. Suggested Uses:

Pyrolysis-GC is a useful technique for comparing polymers and other organics when the samples are run under the same conditions.

## III. Operating Procedures

- A. Start-up procedures
  - 1. Open the detector gas valves completely and then close 1/4 turn.
  - 2. Ignite the flame by depressing the ignitor button.
  - 3. Turn on the pyrolyzer and allow to warm up for at least thirty minutes.
- B. Collection and storage of data (see attached)
- C. Shut-down procedures
  - 1. Allow the oven to cool to approximately 80°C.
  - 2. Completely close the detector gas valves.
  - 3. DO NOT TURN THE GC OFF.
  - 4. Turn off the pyrolyzer.

### IV. Safety concerns

- A. Safety glasses will be worn when flame cleaning the sample tubes and all other safety precautions are to be followed for using an open flame in the laboratory.
- B. The transfer tube that connects the pyrolyzer to the GC is hot and should be avoided.

# V. Other information

The pyrolyzer may be left on overnight if it is to be used the next day. If the pyrolyzer is turned off, allow at least a 30-minute warm-up before using.