Photos of Scouts and Helpers in Action - Partially Design, Build, and Test a Plasma Discharge Tube

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Scouts and Helpers

- Between 40 and 45 scouts experienced building a plasma tube and learned about plasmas.
- Roughly 20 adults were also present. Some joined in on the fun.
- Four Girl Scouts, a parent and one university graduate student assisted scouts in the workshop.
- One of the Girl Scouts aided Dr. Schill in the presentation.
Snapshots of Scouts and Helpers Working Together
Scouts In Action

- Building and designing electrodes
- Assembling plasma tube
Typical Electrode Designs
Plasma in a Tube

• The moment of truth. Scouts patiently wait to watch the glow that their tube makes.

• Success! Some of the glows received ‘oohhs’ and ‘aahhhs’

• One session, the scouts’ plasma glows outdid their leaders!
Plasma Discharge Tube System

• Six plasma discharge tubes were designed to withstand vacuum pressures. In order to be useful in the 25 minute sessions, each tube was designed to be goof proof.
Designers and Builders of the Plasma Discharge Tube System

• Three Girl Scouts designed and built the plasma discharge tube system. This was a month and a half project culminating with the merit badge workshop event.