

## **Summary of Omani Students works with Dr. Ian Crotty in Building 904 at CERN**

**Work on Gas Calibration experiment and analysis to get the conversion factor:**

1. R134a Calibration.
2. ARGON Calibration (SHORT PIPE).
3. ARGON CALLIBRATION (LONG PIPE).
4. PIPE LENGTH EFFECT ON FLOW RATE OF ARGON.
5. FLOW RATE COMPARISON BETWEEN ARGON AND R134a.
6. Comparison between obtained values and given values for Argon gas with SHORT PIPE and long PIPE.
7. Using advance device for R134a Calibration.

**Work on Glass RPC:**

1. Tested Different Mixtures for Graphite to get the best layer with high conductivity.
2. Worked with experts on cleaning glass to get high efficiency.
3. Make first layer of glass RPC Under instruction of Dr. Ian Crotty.

**Work on Cosmic Watch:**

1. Soldering with help of expert.