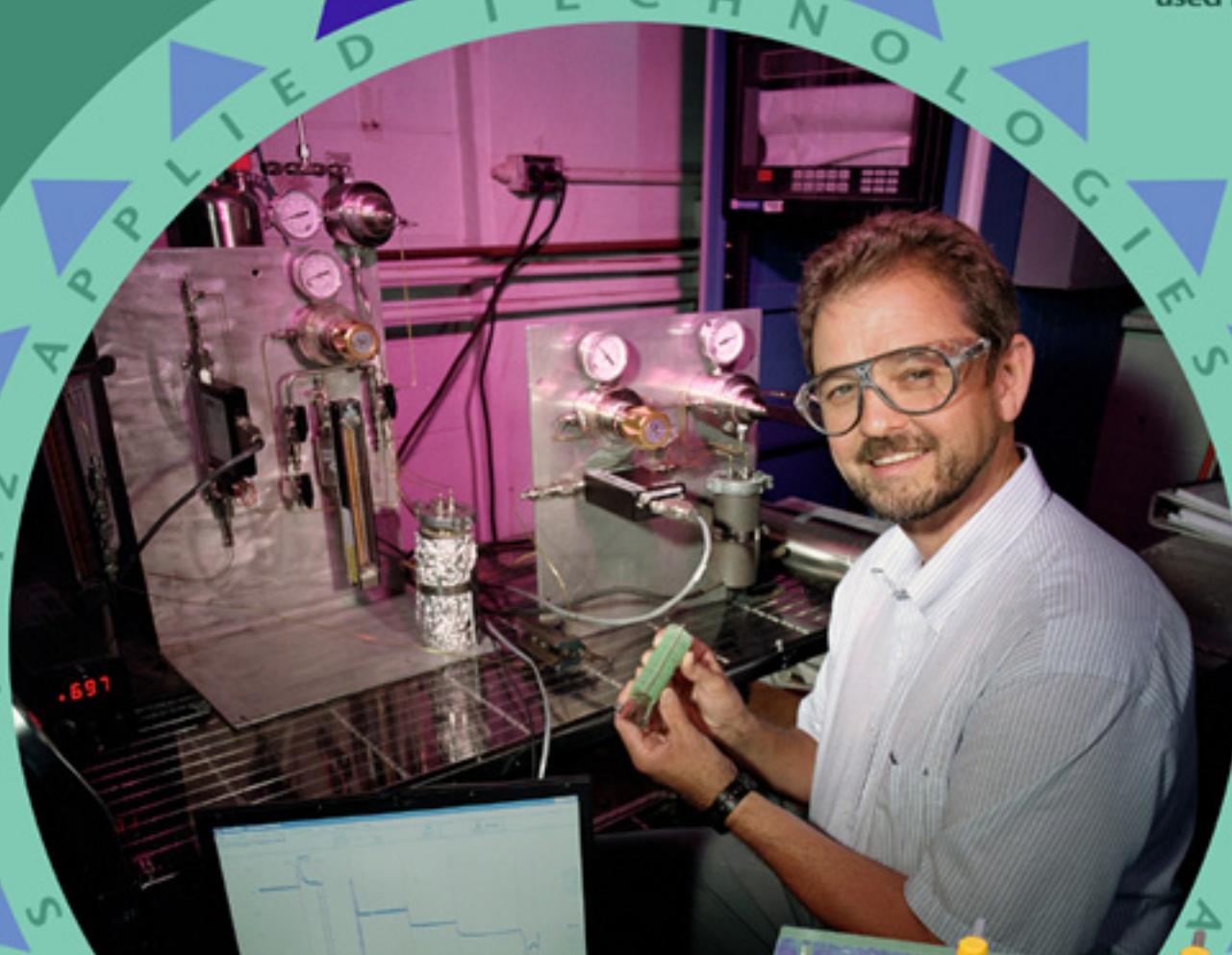


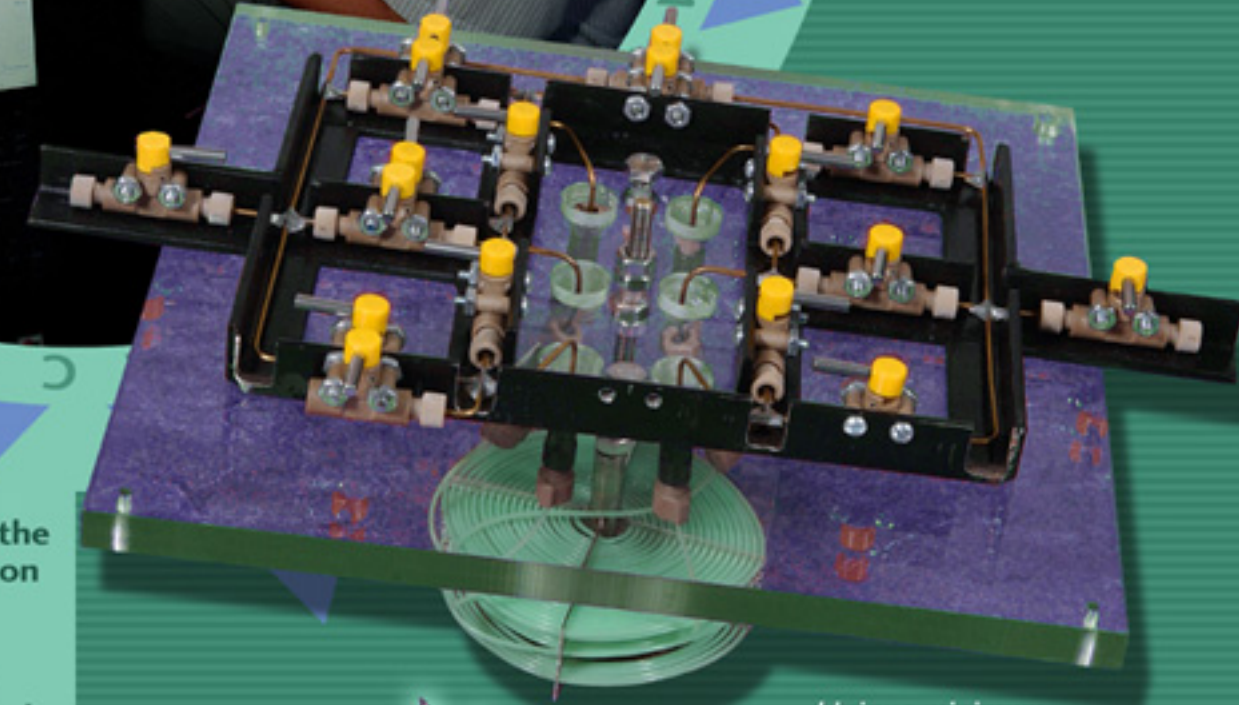
# CONTROLLED MOISTURE BLENDING SYSTEM

The unique moisture blending system developed at Y-12 supplies a gas stream with an adjustable moisture level with high reproducibility, long-term stability (in moisture content and flow rate), wide-ranging flow rates for large- and small-scale applications, high precision, and compact size for portability and good response time.

Current applications include corrosion studies, nonstratified gas mixtures, and system calibrations at low levels. Potential applications include biostudies, electronics, environmental synthesis, the introduction of moisture into closed systems, and pharmaceutical, private-industry, and government R&D programs. The system also can be used for blending other gases and volatile liquids.



APPLIED TECHNOLOGIES  
Y-12



Unique minimum volume manifold



Compact coils for portable units

Clear tubing  
10 ft  
1/16-in. OD x  
0.020-in. ID

Green tubing  
20 ft  
1/16-in. OD x  
0.030-in. ID

## Three key advantages:

**Selectable moisture contents:** Within the initial design parameters of a tailor-made system the user can select a moisture level and a flow rate upon demand.

**Reproducibility:** The system provides a means to accurately deliver the desired moisture content and flow rate with minimal fluctuations over time.

**Stability:** Once system parameters are set, the system's inherent design maintains the moisture content and flow rate for extended periods of time.

