

IAA-01-IAA.9.1.02

ARRAY2K: SIXTEEN DISHES, FIVE DESIGNS

Paul Shuch

The SETI League, Inc.

**Home: 121 Florence Drive
Cogan Station, PA 17728 USA**

Phone: +1 (570) 494-2299

Fax: +1 (570) 494-0100

Email: n6tx@setileague.org

For the past two years, the SETI community has marveled at the development of the ambitious Paul Allen Telescope, a mini-Cyclops consisting of up to a thousand phased satellite TV-type dishes. While saluting the efforts of our California colleagues, The SETI League has been hard at work on its own phased array design, more modest in scope but quite as technologically audacious. When completed, Array2k (patent pending) will employ a unique mix of analog and digital techniques to operate in five distinct modes simultaneously. Optimized as a drift-scan sky survey instrument in the proud tradition of Ohio State's Big Ear, its multi-mode capability will enable Array2k to serve as its own Follow-Up Detection Device, verifying its own findings in real time.