# 1.6 MHz Sonofusion Device FIRST GATE ENERGIES - ROGER STRINGHAM

# ICCF 11 MARSEILLE, FRANCE, OCT. 31 to NOV. 5 2004

**Fig. 1** 



Fig. 2 COMPARE 20 & 40 KHz WITH 1.6 MHz SONOFUSION SYSTEMS

Characteristic	20KHz	40KHz	1.6 MHz
Size Kgm	25	5	.05
Qx watts	60	30	40
Qi watts	600	40	50
Qa watts	60	15	16
Rx Vol. cc	30	20	1
Target Area.cm <sup>2</sup>	25	25	2
Targets	Cu, Pd, Ag, Ti, Alloys		Pd, CuBe
Piezo driver	Ti horn	PZT Stack	Quartz
Static or Dynamic	D	S & D	S & D
D <sub>2</sub> 0 or H <sub>2</sub> 0	D <sub>2</sub> 0 & H <sub>2</sub> 0	D <sub>2</sub> 0 & H <sub>2</sub> 0	D <sub>2</sub> 0 & H <sub>2</sub> 0
Products	He <sup>4</sup> , T		
Operational Dates	1989 - 94	1994 - 2001	2003-04

### Fig. 3 1.6 MHz SF REACTOR – DATA COLLECTION & CALORIMETRY



**Fig. 4** THE TYPICAL DATA FROM THE LM SF REACTOR



**Fig. 5** SONOLUMINESCENCE AND ITS RELATION TO SF





# Fig. 6 Qx PRODUCTION IN DIFFERENT SYSTEMS

## **MULTIPLIER EFFECT- Pd, D2O SONOFUSION SYSTEM**



#### **Fig.** 7

### WE HAVE AN 80 WATT, LOW MASS, SF REACTOR WITH AN M.E. OF 2 AND ARE TESTING 320 WATT Rx



INCREASING THE M.E. MAKES LM SF ECONOMICAL -LM SF MADE OF NEW MATERIALS - STEAM ENERGY-A HOT LM SF DEVICE FEATURING TED\* ELECTRICITY-\*TED IS A THERMOELECTRIC DEVICE.