

**EXPERIMENTAL LICENSE PROGRESS REPORT
OF THE ALFRED MANN FOUNDATION
July 6, 2009**

As required under the experimental license granted on January 6, 2005 (Call Sign WD2XLW; File No. 0255-EX-PL-2004), the Alfred Mann Foundation for Scientific Research (“AMF”) submits this semi-annual progress report on the experimental operations of the medical micropower network (“MMN”) system. AMF continues to make progress with its innovative system. AMF has implemented and continues to implement improvements that will enhance the radio communication performance and reliability of the MMN devices.

Specifically, AMF has completed construction of 68 version one Master Control Units (“MCUs”). The version two MCU radio hardware has been integrated with the digital hardware and evaluated. The essential design goals were met, and the design has been refined to address a residual noise issue. This revised hardware is scheduled for a mid-July build. The enhanced radio performance is needed to support the spectral excision algorithm and improve dynamic range to manage stronger on-channel interferers. A novel, improved spectral excision algorithm has been devised and is being implemented and refined.

The implant chip modification to support the fourth channel has been tested and operates as designed. Additional modifications to support seamless, rapid channel changing have been successfully implemented and tested. The chips incorporating these functions are being incorporated into miniature assemblies scheduled to be completed in late July.

AMF intends to introduce fully functioning MMN devices in clinical studies involving human patients under the auspices and pursuant to the rules and regulations of the Food and Drug Administration. AMF is in the process of considering research proposals and research teams to perform the first human trial tentatively scheduled to commence in 2010.

Table 1 below describes the four channels implemented in the experimental hardware.

Table 1 – Radio Channel Frequencies (MHz)

	Lower Edge	Center	Upper Edge
Band 1	413.919	416.405	418.891
Band 2	426.349	428.835	431.321
Band 3	438.779	441.265	443.751
Band 4	451.209	453.695	456.181
Guard bands 7.458 MHz		Band Width 4.972 MHz	