

## Brief CV – Russell J Andrews

**Training:** Medical school – Dartmouth College/Medical School, Hanover, NH (MD 6/78)  
Graduate school - Harvard University, Cambridge, MA (DEd Human Development 6/74)  
Surgical Internship – Walter Reed Army Medical Center, Washington, DC (7/78-6/79)  
Neurosurgery Residency – Stanford University Medical Center, Palo Alto, CA (7/81-6/86)  
Neurosurgery Registrar, National Hospitals for Nervous System Diseases, London (1-3/83)

**Professional:** Faculty member (Neurosurgery) at the following (1986-2001):  
University of California, Davis, Medical Center (1986-92)  
Stanford University Medical Center (1992-96)  
State University of New York Upstate Medical Center (1996-98)  
Texas Tech University Medical Center, El Paso (Chief, Neurosurgery) (1998-2001)  
Ames Associate (Smart Systems & Nanotechnology) NASA Ames Research Center (1998-present). Advisor since 2015 (Ames Associate program terminated). NASA Ames Nanotechnology has received 2 NIH grants for nanoelectrodes for the brain-machine interface, the last (\$1.8M, 2011-16), PI Kendall Lee, Mayo Clinic Neurosurgery 2001-17: Private practice neurosurgery, Silicon Valley/San Jose, CA.

### Major Committees/Memberships:

Aerospace Medical Association  
American Association of Neurological Surgeons: Past Chair, International Committee  
Asian Congress of Neurological Surgeons: Executive Committee  
Bioluminate, Inc. (NASA patent licensee): Scientific Advisory Board  
Computer Assisted Radiology and Surgery (CARS): Program Committee  
Congress of Neurological Surgeons  
Epilepsy Foundation of Northern California: Board Member  
European Association of Neurosurgical Societies  
European Association for Predictive, Preventive and Personalised Medicine  
International Association of Neurorestoratology: Advisory Board  
International Conference on Neuroprotective Agents: President  
New York Academy of Sciences (Life Member)  
Society of British Neurological Surgeons  
World Federation of Neurosurgical Societies (WFNS): Newsletter Editor  
WFNS Committee Membership: Neurotrauma, Mass Casualty, Neurorehabilitation  
*World Neurosurgery*: Feature & Section Editor

**Publications:** Editor, *Intraoperative Neuroprotection*. Williams & Wilkins, 1996  
Author: *Too Big to Succeed: Profiteering in American Medicine*. iUniverse, 2013  
Author/co-author of over 40 book chapters, and over 80 peer-reviewed research articles  
Presenter/co-presenter of over 300 presentations at major national/international scientific meetings (many as invited speaker)

**Patents:** "Multimodality Instrument for Tissue Characterization" US Patents #6,109,270 (August 29, 2000) #6,718,196 (April 6, 2004) - NASA on behalf of RW Mah and RJ Andrews.  
"Carbon Nanotube-based Nanoelectrode Array for Deep Brain Stimulation" Patent Application by NASA on behalf of J Li, M Meyyappan, R Andrews, March, 2003.

**Licenses:** California, Texas; Board Certified, Neurosurgery, 1989.