

CALIFORNIA COASTAL COMMISSION

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STATUS MEMO

DATE: July 22, 1999

TO: Coastal Commissioners And Interested Parties

FROM: Peter Douglas, Executive Director
Mark Delaplaine, Federal Consistency Supervisor

RE: U.S. NAVY, Surface Warfare Engineering Facility (SWEF)
Port Hueneme, Ventura County
Expert Review Panel Selection

On April 30, 1998, the Commission staff objected to two negative determinations for radar systems at the SWEF in Port Hueneme. The Commission staff requested that the Navy submit consistency determinations for the systems. The Navy disagreed with the Commission staff and declined to submit consistency determinations. Based on this disagreement, on August 21, 1998, the Commission requested, and the Navy subsequently agreed, to seek informal mediation of the matter by the Office of Ocean and Coastal Resource Management (OCRM).¹

On October 29, 1998, and February 10, 1999, the Commission staff met with the Navy and OCRM to discuss the terms of how the informal mediation process could best proceed. The outcome of those meetings were memorialized in OCRM memos to the Commission and the Navy dated November 6, 1998, and April 6, 1999, respectively, which have been distributed to the Commission and the public. When the matter arose at the June 10, 1999, Commission meeting, the Commission did not indicate any significant concerns over this process for establishing an independent and objective technical panel to review the questions and information compiled to date, the purpose of which is to assist the Commission in determining effects on coastal resources from SWEF radar facilities.

¹ Pursuant to federal consistency regulations 15 CFR Part 930, § 930.36 and Subpart G, § 930.110 et seq.

Based on the agreements to date (as described in OCRM's April 6, 1999, memo) the panel make-up and selection would occur as follows:

The Technical Panel

***Make up of the Panel.** The Panel should consist of 3-5 members. The Panel members need to be objective and not be substantially involved with the Department of Defense. At least one of the Panel members should have clearance to review classified materials. It is desirable that one of the Panel members have bio-medical expertise and one of the Panel members have wildlife expertise. Public agency Panel members are preferred, but, depending on availability of the public agencies, universities or private contractors may be selected.*

***Selection of the Panel.** OCRM will solicit the participation of the candidates listed in the priority Panel pool, ... [see OCRM memo]. If 3-5 of the priority Panel pool candidates agree to participate, then the rest of the Panel pool will not be contacted. If OCRM cannot obtain the participation of 3-5 participants from the priority Panel pool, OCRM will contact the candidates in the secondary Panel pool until 3-5 have agreed to participate. Once OCRM obtains commitments from the Panel selectees, OCRM will forward to the Commission and the Navy the names and background information of the selected Panel members. The Commission will review the Panel selection at the first Commission meeting after OCRM forwards the Panel names. The Commission and the Navy will then provide OCRM with their concurrence or objection with the Panel selection, immediately following that Commission meeting.*

This OCRM memo also describes the task of the panel members as follows:

The Panel is charged with providing, to the Navy and the California Coastal Commission (Commission), through the mediator, the Office of Ocean and Coastal Resource Management (OCRM), an objective scientific evaluation on whether, and to what extent, the operation of the Navy's Surface Warfare Engineering Facility (SWEF) at Port Hueneme, Ventura County, California, poses impacts to any land or water use or natural resource of the coastal zone or impacts safe public access to the coastal zone. The Panel, in making its evaluations, shall use the materials and questions provided by OCRM. Each Panel member is asked to provide its own independent finding. Panel members may communicate with one another and shall inform OCRM of such inter-Panel communications. Requests to use additional information or to communicate with the Navy, the Commission or others shall be made through OCRM. Panel members shall have six weeks to complete their evaluations.

Because the Commission was interested in the make-up of the review panel, the mediating parties agreed that once tentatively selected, the make-up of the review panel would be brought before the Commission at the next scheduled public meeting. On April

13, 1999, the Commission selected Lee Quaintance to serve as a citizen observer to be included on the panel. For the remainder of the panel, as of June 24, 1999, OCRM has selected the following panel members:

<u>Member</u>	<u>Affiliation</u>
Ed Mantiplay	National Air and Radiation Laboratory, EPA
John D'Andrea	Brooks Air Force Base, Texas

Wildlife Expert

Robert Beason

Citizen Observer

Lee Quaintance

Resumes are attached for two of the three regular members, Edwin Mantiplay and Robert Beason. A resume is still being sought for John D'Andrea. Finally, OCRM is still endeavoring to obtain one additional member to replace Dr. Liburdy. Therefore, as of July 22, 1999, the final panel configuration is not available.

Attachments

Edwin D. Mantiply

National Air and Radiation Environmental Laboratory
U.S. Environmental Protection Agency
540 South Morris Avenue, Montgomery, AL 36115-2601
Phone: 334-270-7051, Fax: 334-270-3454, Internet: mantiply.edwin@epa.gov

Education

B.S. Physics, North Carolina State University, 1975
B.S. Biology, Auburn University at Montgomery, 1998

Employment

U. S. Environmental Protection Agency, Non-ionizing Radiation, 1976 to Present
State of North Carolina, Ionizing Radiation, 1974-1976
National Science Foundation, Methane Production, 1974
City of Charlotte, Civil Engineering Assistant, 1972-1973
Grocery Clerk and Paper Carrier 1967-1971

Clearance

Secret
Q

Publications

Berman E, Chacon L, House D, Koch BA, Koch WE, Leal J, Lovtrup S, Mantiply E, Martin AH, Martucci GI, Mild KH, Monohan JC, Sandstrom M, Shamsaifar K, Tell R, Trillo MA, Ubeda A, Wagner P (1990): Development of chicken embryos in a pulsed magnetic field. Bioelectromagnetics 11:169-187.

Fong SW, Mantiply ED (1975): "Report on Environmental Radiation Surveillance in North Carolina for 1974 and 1975." Raleigh, NC: State of North Carolina, Radiation Protection Branch.

Mahlum DD, Evanoff JJ (1988): "Residential Magnetic Field Measurements Project." Richland, WA: Battelle Pacific Northwest Laboratory

Mantiply ED (1984): "An Automated TEM Cell Calibration System." Las Vegas, NV: U. S. Environmental Protection Agency.

Mantiply ED (1988): Characteristics of broadband radiofrequency field strength meters. In Harris G, Walker C (ed): "Proceedings of the Annual International Conference of the IEEE Engineering in Medicine and Biology Society, Volume 10: 1988." pp. 889-891 Piscataway, NJ: IEEE Service Center.

Mantiply ED, Hankin NN (1989): "Radiofrequency Radiation Survey in the McFarland, California Area." Las Vegas, NV: U. S. Environmental Protection Agency.

Mantiply ED, Cleveland RF (1991): "Electric and Magnetic Fields Near AM Broadcast Towers." Las Vegas, NV: U. S. Environmental Protection Agency.

Mantiply ED (1992): "Measurements of Electric and Magnetic Fields in the Waianae, Hawaii Area." Montgomery, AL: U. S. Environmental Protection Agency.

Mantiply ED, Pohl KR, Poppell SW, Murphy JA (1997): Summary of measured radiofrequency electric and magnetic fields (10 kHz to 30 GHz) in the general and work environment. Bioelectromagnetics 18:563-577.

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Rudisill J, Mantiply ED, et al (1974): "Model Methane Production Process for Wake County, North Carolina." Washington, DC: National Science Foundation, Student Originated Studies.

SAIC (1992): "Laboratory Testing of Commercially Available Power Frequency Magnetic Field Survey Meters." Montgomery, AL: U. S. Environmental Protection Agency.

Tell RA, Mantiply ED (1980): Population exposure to VHF and UHF broadcast radiation in the United States. Proceedings of the IEEE 68:6-12.

First Person Introduction

I'm Ed Mantiply with the U. S. Environmental Protection Agency's National Air and Radiation Environmental Laboratory in Montgomery, Alabama. I've been with the EPA electromagnetic fields program since college, some 23 years. Most of my work has been hands-on radiofrequency/microwave field measurement and calibration system development. We characterized general population exposure levels in the late 1970's and since then concentrated on relatively high exposure environments due to broadcast and radar transmitters.

We evaluated instrumentation for both radiofrequency and power frequency field measurements. A summary article of radiofrequency measurements was published [Mantiply et al., 1997]. In recent years, to better understand the biological effects literature, I took a series of courses in biology and chemistry accumulating enough hours to obtain a second B.S. in biology. My current interest is in biophysical mechanisms, especially direct measurement of possible biological rectification of radiofrequency fields.

Vita Sheet for Robert C. Beason

Address: Biology Department
State University of New York
Geneseo, New York 14454
E-mail: beason@uno.cc.geneseo.edu
Home Page: <http://darwin.bio.geneseo.edu/~beason/Beason.html>
Telephone:
Office: (716) 245-5310
Home: (716) 346-9045

Birthdate and Birthplace:

12 May, 1946; Ft. Scott, Kansas; US Citizen

Education and Degrees Received:

Neural Systems & Behavior, Summer 1983, Marine Biological Laboratories, Woods Hole, MA
Ph.D., August 1976, Clemson University, Clemson, SC
Graduate courses, January-December, 1974, University of New Mexico, Albuquerque, NM
M.S., June, 1970, Western Illinois University, Macomb, IL
B.A., May, 1968, Bethany Nazarene College, Bethany, OK

Previous Positions:

Alumni Professor of Biology, SUNY @ Geneseo
Professor, 1990-present; SUNY @ Geneseo
Associate Professor (Tenured), 1985-1990; SUNY @ Geneseo
Assistant Professor (Tenured), 1978-1985; SUNY @ Geneseo
Visiting Assistant Professor, 1977-1978; Western Illinois University
Visiting Lecturer, 1977; University of California @ Irvine
Research Biologist, 1976; US Forest Service, Columbia, SC
Graduate Research Assistant, 1974-1976; Clemson University
Research Scientist and Project Officer, 1970-1974; US Air Force
Graduate Teaching Assistant, 1968-1970; Western Illinois University
Laboratory Instructor, 1965-1968; Bethany Nazarene College

Concurrent Positions:

1973-1974 NASA. Consultant on bird-strike hazards at the Kennedy Space Center, Florida.
1977 FAA. Consultant on bird-strike hazards at the Ontario Airport, Los Angeles, California
1983-present NYSDEC. Consultant on biostatistical analysis of radio-tracked pheasant data for Region 8, Dept. of Environmental Conservation
1995-present Visiting Professor, SUNY-ESF Cranberry Lake Biological Station

Courses Taught:

Behavioral ecology, animal behavior, neuroethology, ecology, population biology, evolution, ornithology, general biology, environmental studies, evolutionary ecology, biostatistics, vertebrate zoology, wildlife management, community and population ecology, biophysics, animal communication, various graduate and undergraduate seminars, and many graduate and undergraduate research projects.

College Activities:

1978-present Member, Minor in Environmental Studies Board
1979-1984 Member Professional Standards and Ethics Committee
1981-1983 Senator-at-large, Faculty Senate
1994 " " " " "
1982-1983 Chairman, Budget Committee, Faculty Senate
1982-1983 Member, Executive Committee, Faculty Senate
1982-1984 Member, Faculty Research Committee

1982-1987	Member, Undergraduate Academic Standards Committee
1987-1988	Geneseo Foundation Faculty Advisory Committee
1987-1988	Professional Leave Review Committee
1992-1995	Member, College Research Council
1992-	Member, Graduate Academic Standards Committee
1993-1995	Member, Library Advisory Committee
1994-1995	Faculty Personnel Committee
1994-	Director, Biophysics Program (an interdepartmental major)
1996-1997	External reviewer, Dept. of Mathematics
1997-1998	Member, College Research Council
1998-	Faculty Personnel Committee

Departmental Activities:

1979-1980	Biology Club Faculty Advisor
1979-1982	Chairman, Seminar Committee
1980-1982	Chairman, Senior Awards Committee
1981-1984	Member, Merit Review Committee
1981-1982	Member, Chairperson Search Committee
1982-1988	Chairman, Graduate Committee
1990-1994	" " "
1982-1984	Member, Budget/Facilities Committee
1989-1992	" " " "
1982-1983	Member Faculty Search Committee
1985	" " " "
1992-1993	" " " "
1995-1996	" " " "
1982-	Member, Vivarium Committee
1994-	Chair, Vivarium Committee
1983-1986	Member, Curriculum Committee
1986-1988	Member, Governance Committee
1988-	Advisor for PreVeterinary students
1988-	Advisor for PrePhysical Therapy students
1988-1989	Biology Graduate Committee
1994-1995	" " "
1990-1993	Member, Seminar Committee
1991-1994	Member, Library Committee
1993-1996	Member, Executive Committee
1994-1996	Chair, Executive Committee
1994-1996	Department Vice Chair
1996-	PreVet Club Faculty Advisor
1996-	Chair, Undergraduate Committee
1997-1998	Chair, Faculty Search Committee
1997-1998	Member, Computer & Information Tech. Search Committee (4 positions)
1998	Member, Physics Faculty Search Committee

Research Interests:

Neuroethology: Sensory physiology of migratory orientation, Biomagnetism, Magnetic sensory physiology, Avian color vision, Information content in bat echolocation calls

Behavioral ecology: Evolution of bird migration; Migration, orientation, and navigation of animals; Ontogeny of behavior; Animal communication

Awards and Honors:

1980-1997 Merit Raises
 1984 Appt. to Honorary Educational Advisory Board, American Biographical Institute
 1987 Elective Member, American Ornithologist's Union
 1998-2001 Alumni Professor

Biographical Listings

American Men and Women of Science
 Men of Achievement
 Who's Who in Frontier Science and Technology
 Who's Who in America
 Who's Who in Science and Engineering
 Who's Who in American Education
 Who's Who in the World

Grants and Contracts:

Sigma Xi, Grant-in-aid, \$250, Western Illinois Univ., 1969
 Dept. of Interior, \$38,039, Clemson Univ., 1974-1976
 Univ. Awards Committee, \$3800, SUNY @ Geneseo, 1979
 NSF, \$6,000, SUNY @ Geneseo, 1981
 Geneseo Foundation, \$140, SUNY @ Geneseo, 1981
 Faculty Research Fund, \$200, SUNY @ Geneseo, 1982
 NIMH, NRSA (T35) traineeship, \$2280, MBL, 1983
 Geneseo Foundation, \$357, SUNY @ Geneseo, 1983
 Geneseo Foundation, \$400, SUNY @ Geneseo, 1984
 SUNY Research Capital Equipment Program, \$10,748, SUNY @ Geneseo, 1986, Co-P.I.
 Geneseo Foundation, \$210, SUNY @ Geneseo, 1986
 Centre de Physique des Houches, travel grant, \$500, les Houches, France, 1986
 Deutsche Forschungsgemeinschaft, travel grant \$1000, Frankfurt, Germany, 1986
 NSF Equipment Grant, \$11,500, Co-P.I., 1987
 NSF REU Grant, \$8,000, Co-P.I., 1987
 Geneseo Foundation, \$400 Co-PI, 1987
 Geneseo Foundation, \$325, SUNY @ Geneseo, 1987
 UUP, PDQWL travel grant, \$500, 1987
 NIH AREA Grant, P.I., \$61,865, 1988
 Deutsche Forschungsgemeinschaft travel grant \$1250, Frankfurt, Germany, 1989
 Geneseo Foundation \$400, 1989
 NSF BNS Research Grant, \$129,647, SUNY @ Geneseo, 1990
 NSF USE, Laboratory Instructional Equipment Grant, \$31,987, 1991
 Whitehall Foundation Research Grant, \$39,644, 1991
 Deutsche Forschungsgemeinschaft, \$1500, Frankfurt, Germany, 1992
 Whitehall Foundation Research Grant, \$27,200, 1993
 UUP, PDQWL travel grant, \$430
 Roemer Fellowship, \$4000, 1997
 Alumni Professorship, \$15,000, 1998-2001.

Professional Societies

American Ornithologists' Union, American Society of Naturalists, Animal Behavior Society,
 Cooper Ornithological Society, International Society for Behavioral Ecology, International
 Society for Neuroethology, Society for Neuroscience, Wilson Ornithological Society, Association
 of Field Ornithologists

Professional Activities

- Editor, The Wilson Bulletin (1997-)
- Review Editor, Journal of Field Ornithology (1993-1997)
- Scientific Advisory Board, Braddock Bay Bird Observatory (1998-)
- Reviewed book manuscript for Brunner Publishing Co.
- Reviewed Ornithology Textbook manuscript for Benjamin/Cummings Publishing Co
- Review grant proposals for NSF regularly
- Review manuscripts for Auk, Wilson Bulletin, Animal Behaviour, Ethology, J. Comparative Physiology, Life Science, J. Field Ornithology
- Member review staff for Recent Literature, J. of Field Ornithology
- Member local committee and session chairman, Rochester Academy of Sciences, 1978, 1980
- Symposium convenor for the 20th International Ornithological Congress, Christchurch, New Zealand, 1990
- Symposium convenor for the 21st International Ornithological Congress, Vienna, Austria, 1994

Research Collaboration:

- | | |
|--------------|---|
| 1983-1990 | B. Penrod, NYS Dept. Environ. Conservation, Avon, NY. |
| 1986-present | P. Semm, Univ. Frankfurt, Frankfurt, W. Germany |
| 1989-present | W. Wiltshko & R. Wiltshko, Univ. Frankfurt, Frankfurt, W. Germany |
| 1990 | V. Bingman, Bowling Green University, Bowling Green, OH |
| 1992-present | J. Phillips, University of Indiana, Bloomington, IN |
| 1996-1997 | E. Loew, Cornell University, Ithaca, NY |

Publications:

- Franks, E.C., E.C. Franks, and R.C. Beason. 1971. Blackburnian warbler in Rocky Mountain National Park, Colorado. *Colo. Field Ornithologist* 9:33.
- Beason, R.C. and E.C. Franks. 1973. Development of young horned larks. *Auk* 90:359-363.
- Beason, R.C. and E.C. Franks. 1974. Breeding behavior of the horned lark. *Auk* 91:65-74.
- Beason, R.C. 1974. An instance of interspecific aggression by the barn swallow. *IBBA News* 46:55-56.
- Beason, R.C. 1976. An observation of nocturnal passerine migration through Panama. *Condor* 78:117-118.
- Beason, R.C. 1977. Water bird migration in the southwestern United States: The influences of weather and topography. *Diss. Abstr.* 37(7):3290B-3291B.
- Beason, R.C. 1978. The influences of weather and topography on water bird migration in the southwestern United States. *Oecologia* 32:153-169.
- Beason, R.C. 1980. The orientation of waterfowl migration in the southwestern United States. *J. Wildl. Manag.* 44:447-455.
- Beason, R.C. and J.E. Nichols. 1984. Magnetic orientation and magnetically sensitive material in a transequatorial migratory bird. *Nature* 309:151-153.
- Beason, R.C. and L.L. Trout. 1984. Helpers at the nest in the Bobolink (*Dolichonyx oryzivorus*). *Wilson Bull.* 96:709-710.
- Beason, R.C. 1984. Altruism in the Horned Lark? *J. Field Ornithol.* 55:489-490.
- Beason, R.C. 1985. Getting there. *NAHO*(1):3-5.
- Beason, R.C. and W.J. Brennan. 1986. Natural and induced magnetization in the bobolink (*Icteridae: Dolichonyx oryzivorus*). *J. Exp. Biol.*, 125:149-156.
- Beason, R.C. 1986. Magnetic orientation and magnetically sensitive material in migratory birds. pp. 167-172 *IN* Biophysical Effects of Steady Magnetic Fields, G. Maret, J. Kiepenheuer, & N. Boccara, eds. Springer-Verlag, Heidelberg.
- Beason, R.C. 1987. Interaction of visual and non-visual cues during migratory orientation by the

- Bobolink. (*Dolichonyx oryzivorus*). J. Ornithol. 128:317-324.
- Beason, R.C. and P. Semm. 1987. Magnetic Responses of the Trigeminal Nerve System of the Bobolink (*Dolichonyx oryzivorus*). Neuroscience Letters, 80:229-234.
- Beason, R.C. 1989. Magnetic sensitivity and orientation in the Bobolink *IN* Orientation and Navigation. Royal Inst. Nav., London.
- Beason, R.C. 1989b. Use of an inclination compass during migratory orientation by the Bobolink (*Dolichonyx oryzivorus*). Ethology 81:291-299.
- Semm, P. and R.C. Beason. 1990. Sensory basis of bird orientation. Experientia 46:372-378.
- Semm, P. and R.C. Beason. 1990. Responses to small magnetic variations by the trigeminal system of the bobolink. Brain Res. Bull 25:735-740.
- Wiltchko, W. and R.C. Beason. 1990. Magneteffekte bei der Heimorientierung von Brieftauben. Verh. Dtsch. Zool. Ges. 83:435-436.
- Beason, R.C. and P. Semm. 1991. Neuroethological aspects of bird orientation. *IN* "Orientation in birds" (P. Berthold, ed.). pp. 106-127. Birkhäuser, Basel.
- Beason, R.C. and P. Semm. 1991. Two different magnetic systems in avian orientation. Acta Congr. Intern. Ornithol. 20:1813-1819.
- Wiltchko, W. and R.C. Beason. 1991. Sensory basis of orientation. Acta Congr. Intern. Ornithol. 20:1801-1850.
- Beason, R.C. 1992. You can get there from here: Responses to simulated magnetic equator crossing by the bobolink (*Dolichonyx oryzivorus*). Ethology 91:75-80.
- Wittmann, K. and R.C. Beason. 1992. The effects of blowfly parasitism on nestling eastern bluebird development. J. Field Ornithol. 63:286-293.
- Beason, R.C. and P. Semm. 1994. Receptors for and detection of magnetic fields in birds. *IN* "Biologic Effects of Electric and Magnetic Fields." (D.O. Carpenter, ed.) vol. 1, pp. 141-160. Academic Press, NY.
- Beason, R.C. 1994. Potential neural mechanisms of avian magnetic perception. J. Ornithol. 135:412.
- Wiltchko, W., U. Munro, R.C. Beason, H. Ford, and R. Wiltchko. 1994. A magnetic pulse leads to a temporary deflection in the orientation of migratory birds. Experientia 50:697-700.
- Beason, R.C., J. Harper, S. McNulty, N. Dussourd, and J. Freas. 1994. Magnetic effects on homing Bank Swallows. J. Ornithol. 135S:88.
- Beason, R.C. and W. Wiltchko. 1994. Symposium: use of mechanical and magnetic orientation cues. J. Ornithol. 135:411-415.
- Beason, R.C. 1995. Horned Lark (*Eremophila alpestris*). in The Birds of North America 195:1-24. (A. Poole & F. Gill, Eds.). Philadelphia: Acad. Nat. Sci.
- Beason, R.C., N. Dussourd, and M.E. Deutschlander. 1995. Behavioral evidence for the use of magnetic material in magnetoreception by a migratory birds. J. Exp. Biol. 198:141-146.
- Beason, R.C. and P. Semm. 1997. Two avian magnetoreceptors? J. Exp. Biol. 199:1241-1244.
- Beason, R.C., R. Wiltchko, and W. Wiltchko. 1996. Pigeon homing: Effects of magnetic pulses on initial orientation. Auk 114:405-415.
- Beason, R.C. 1997. Biophysical mechanisms of magnetic transduction in vertebrates. Comm. Theor. Biol. 4:339-360.
- Beason, R.C. and R. Wauer. 1998. Colima Warbler (*Vermivora crissalis*). in The Birds of North America 390:1-24. (A. Poole & F. Gill, Eds.). Philadelphia: Acad. Nat. Sci.

Papers Presented/Abstracts:

- Beason, R.C. 1970. Breeding biology of the Prairie Horned Lark in Illinois. Ill. Acad. Sci., Chicago, IL.
- Beason, R.C. 1972. Aspects of precision radar in monitoring bird behavior. Wilson Ornithol. Soc., Provincetown, MA.

- eason, R.C. 1974. Temporal and geographic variation in bird migration in the Southwest. Cooper Ornithol. Soc., Flagstaff, AZ.
- eason, R.C. 1975. A comparison of eastern and western nuthatch vocalizations. Amer. Ornithol. Union, Winnipeg, Manitoba.
- eason, R.C. 1978. The influences of weather on the direction of waterfowl migration in the Southwest. Ornithol. Union, Madison, Wisc.
- eason, R.C. 1978. Influences of weather and topography on waterfowl migration in the Southwest. Rochester Acad. Sci., Geneseo, NY.
- eason, R.C. 1980. Influences of weather on songbird migration in the southwestern United States. Amer. Ornithol. Union, Ft. Collins, CO.
- eason, R.C. 1980. The influences of weather on songbird migration in the southwestern United States. Rochester Acad. Sci., Rochester, NY.
- Beason, R.C. 1981. Responses of Bobolinks (*Dolichonyx oryzivorus*) to artificial skies. Rochester Acad. Sci., Rochester, NY.
- Beason, R.C. 1982. Behavioral responses of Bobolinks (*Dolichonyx oryzivorus*) to visual and non-visual cues during migratory orientation. Anim. Behav., Albany, NY.
- eason, R.C. 1983. A potential receptor for magnetic orientation in the Bobolink. Am. Ornithol. Union, New York, NY.
- Beason, R.C. 1983. Behavioral responses of Bobolinks (*Dolichonyx oryzivorus*) to visual and magnetic cues. Rochester Acad. Sci., Rochester, NY.
- Beason, R.C. and J.E. Nichols. 1983. Magnetically sensitive material in the Bobolink (*Dolichonyx oryzivorus*). Rochester Acad. Sci., Rochester, NY.
- eason, R.C. 1984. Possible Anatomical and Cellular Mechanisms of Magnetoreception in the Bobolink. Rochester Acad. Sci., Rochester, NY.
- eason, R.C. 1985. The use of visual and non-visual cues for migratory orientation by the bobolink. Animal Behavior Soc., Raleigh, NC.
- *Beason, R.C. 1985. Visual and non-visual migratory orientation and mechanism in a trans-equatorial migrant. School of Medicine, SUNY @ Buffalo.
- Grietzner, H., K. Mullane, R.C. Beason. 1985. Endogenous induction of vernal physiological conditions in the Bobolink (*Dolichonyx oryzivorus*). Undergraduate Research Symposium, Geneseo, NY.
- *Beason, R.C. 1986. Magnetic orientation and magnetically sensitive material in migratory birds. School of Theoretical Physics. Les Houches, France.
- eason, R.C. 1986. Use of geomagnetic field by the Bobolink. International symposium on Avian Orientation and Navigation, Ithaca, New York.
- eason, R.C. 1986. The role of magnetic information in migratory orientation of the Bobolink. XIX Congressus Internationalis Ornithologicus, Ottawa, Canada.
- eason, R.C., K. Mullane, and R. Owens. 1986. The interaction of visual and magnetic cues in migratory orientation of the Bobolink. International Behavioral Ecology Meeting, Albany, New York.
- *Beason, R.C. 1987. Magnetic orientation and other means of direction finding in the migration of the Bobolink. Buffalo Museum of Science, Buffalo, NY.

- *Beason, R.C. 1987. Electrophysiological evidence for magnetic sensitivity in the Bobolink. Univ. of Rochester, School of Medicine, Rochester, NY.
- *Beason, R.C. 1987. Interaction of visual and magnetic orientation cues during migration in the Bobolink. International Ethological Conference XX, Madison, Wisc.
- *Beason, R.C. 1987. Behavioral and Neurophysiological Evidence for Magnetic Field Sensitivity in the Bobolink. Downstate Medical Center, SUNY Brooklyn, Brooklyn, NY.
- Beason, R.C., H. Grietzer, K. Mullane, and J.B. King. 1988. Induction of vernal physiological conditions in the Bobolink. Amer. Ornithol. Union, Fayetteville, Arkansas.
- Beason, R.C., P. Semm, and A.J. Mackie. 1988. Magnetic sensitivity of the avian ophthalmic nerve. Soc. Neurosci., Toronto.
- *Beason, R.C. 1988. Magnetic orientation in the Bobolink. Do they or don't they? Neurobiol. and Behavior Section, Cornell Univ., Ithaca.
- *Beason, R.C. 1989. Magnetic sensitivity and orientation in the Bobolink. International Orientation and Navigation Symposium, Cardiff, U.K.
- Beason, R.C. 1989. Cue interaction during migratory orientation by the Bobolink. Amer. Ornithol. Soc., Pittsburgh, PA.
- Mackie, A.J. 1989. Neural Responses to magnetic fields. Small College Science Conf., Annapolis, MD.
- Mackie, A.J. and R.C. Beason. 1989. Neural responses to magnetic fields. Undergrad. Res. Symp., SUNY Geneseo.
- Fagan, K. and R.C. Beason. 1989. Use of magnetite particles in migratory orientation of the Bobolink. Undergrad. Res. Symp., SUNY Geneseo.
- Mackie, A.J. and R.C. Beason. 1989. Avian neural responses in magnetic fields. Amer. Ornithol. Soc., Pittsburgh, PA.
- Beason, R.C., M. Deutschlander, K. Williams, and K. Fagan. 1990. Orientation of magnetized bobolinks. Abstr. Anim. Behav. Soc. 26:177.
- Beason, R.C. 1990. Influences of magnetization on avian orientation. Abstr. Intern. Ornithol. Congr. 20:384.
- *Beason, R.C. and P. Semm. 1990. Two different magnetic systems in the avian brain. Abstr. Intern. Ornithol. Congr. 20:304.
- Wittman, K. and R.C. Beason. 1991. The effects of blowfly parasitism on nestling development in the Eastern Bluebird. Abstr. Amer. Ornithol. Union. 109:305.
- Beason, R.C. and P. Semm. 1991. Sensitivity to small magnetic variations in the trigeminal system of the bobolink. Abstr. Soc. Neuroscience 17:107.
- *Beason, R.C. 1992. Magnetic field stimulation of the ophthalmic nerve of the bobolink. Gordon Conference on Bioelectrochemistry.
- Beason, R.C., N. Dussourd, M. Deutschlander, and C. Augonis. 1992. Evidence for a particle-based magnetoreceptor used in avian orientation. Abstr. Intern. Soc. Neuroethol. 3:233.
- Beason, R.C. 1993. Evidence for a particle-based magnetoreceptor used in avian orientation. Abstr. Soc. Neuroscience.
- Beason, R.C., J. Harper, S. McNulty, N. Dussourd, and J. Freas. 1994. Magnetic effects on homing Bank Swallows. XXI Intern. Ornithol. Congr.
- Beason, R.C. 1994. Potential neural mechanisms of avian magnetic perception. XXI Intern. Ornithol. Congr.
- *Beason, R.C. 1994. Mechanisms of avian magnetoreception. Univ. Frankfurt, Germany
- Beason, R.C. 1995. Avian neuronal responses to static and low frequency electromagnetic fields. BEMS Abstr.
- Beason, R.C. and P. Semm. 1995. Two avian magnetoreceptors systems? BEMS Poster Abstr.
- Beason, R.C. 1995. Two avian magnetoreceptors? Abstr. Soc. Neuroscience.
- Semm, P., S. Marhold, K.-P. Dombek, and R.C. Beason. 1996. Neuronal responses to electromagnetic fields of low intensity at 900 MHz. BEMS Abstr.
- Beason, R.C., M.M. Ferreri, and J.J. Fisk. 1996. Central and peripheral projects of the trigeminal nerve in the Bobolink. Abstr. Amer. Ornithol. Union.
- Beason, R.C. 1997. Evidence for multiple magnetic receptors in the Bobolink. Abstr. Wilson

Ornithol. Soc.

Beason, R.C. 1998. Multiple mechanisms of magnetic preception. Gordon Research Conference in Bioelectrochemistry. Henniker, NH.

*Beason, R.C. 1998. Birds, bats, and wavelets. Math. Assoc. America, Rochester, NY

*Beason, R.C. 1999. Magnetic perception in animal navigation. AAAS meeting, Anaheim, CA

*Invited Presentation

Reviews:

- 1986 Book Review: Magnetic Biomineralization and Magnetoreception in Organisms: A New Biomagnetism. *Quart. Rev. Biol.* 61:429-430
- 1988 Book Review. The Avifauna of Switzerland. *J. Field Ornithol.* 59:305
- 1989 Book Review. The Common Loon. *J. Field Ornithol.* 60:543-544
- 1991 Book Review. Bird migration and physiology and ecophysiology. *J. Field Ornithol.* 62:536-539.
1992. Book Review. Bird Migration. *J. Field Ornithol.* 63:238-240.
1997. Book Review. Control of Bird Migration. *Ethology* 104:88-89.
- 1976-present *J. Field Ornithology* : 12 to 24 reviews published per year

Theses:

- 1970 The annual cycle of the Prairie Horned Lark in west-central Illinois. Western Illinois Univ. Macor
- 1976 Water bird migration in the southwestern United States: The influences of weather and topography. Clemson Univ., Clemson, SC

Graduate Students:

- 1977 R.T. Stanek. Influence of season and sex on the foraging behavior of the downy woodpecker.
- 1981 M.R. Charette. The effects of conspecific vocalizations and mirror-image stimulation on tonic immobility.
- 1981 T.G. Ropchak. The effects of age, sex, and breeding status on plasma proteins of the red-winged blackbird.
- 1981 F.E. Mochol. Sony components eliciting species recognition in the yellow warbler (*Dendroica petechia*).
- 1981 M.J. Sanderson. Photoperiod effects on gonadal recrudescence in yellow perch, *Perca flavescens*.
- 1982 M.L. Zettel. Light microscopic examination of iron compounds in the head of the Bobolink.
- 1983 M.L. LoMonaco. Circannual corticosterone cycles in the Bobolink, related to migratory orientation.
- 1985 V. Scarpino. Individual and mate recognition by vocalization in the Yellow Warbler. Thesis Advisor.
- 1986 G. Rodriguez. Avian neural sensitivity to the magnetic field. Thesis Advisor.
- 1990 K. Wheeler. Microanatomy of ethmoidal iron deposits in the Bobolink.
- 1990 K. Wittman. Bluebird Nesting Success.
- 1990 P. Luke. Foraging vigilance in the Black-capped Chickadee.
1992. K. Sherman. Classical conditioning to magnetic fields of *Apteronotus leptorhynchus*.
1994. W. Coles. NMR imaging of avian biogenic magnetite.
- 1994 M. Ferreri. Distribution of avian trigeminal nerves in the ganglion.
1997. S. Bennett. Influence of weather and topography on passerine migration across Lake Ontario.

Government Publications:

- 1971 Evaluation of the bird-aircraft strike hazard at Shemya AFB, Alaska. DE-TN-71-037. Kirtland AFB, Canal Zone. DE-TN-71-039. Kirtland AFB, NM.
- 1972 Preliminary evaluation of bird-aircraft strike at Beale AFB, California. DE-TN-72-018. Kirtland AFB, NM.
- 1972 Preliminary evaluation of the bird-aircraft strike hazard at Sheppard AFB, TX. DE-TN-72-021. Kirtland AFB, NM.
- 1972 Dry season evaluation of the bird-aircraft strike hazard at Howard AFB, Canal Zone. DE-TN-72-034. Kirtland AFB, NM.
- 1972 Waterfowl migration corridors. AFWL-TR-72-166. Kirtland AFB, NM.
- 1973 The bird-aircraft strike hazard in the Canal Zone. AFWL-TR-73-16. Kirtland AFB, NM.
- 1974 The bird strike hazard at Kennedy Space Center. AFWL-TR-74-127. Kirtland AFB, NM.
- 1974 A literature review of the influence of weather on migration. AFWL-TR-74-196. Kirtland AFB, NM.
- 1974 The seasonal occurrence of waterfowl on wildlife refuges in the southwest. AFWL-TR-74-174. Kirtland AFB, NM.
- 1974 A radar and direct visual study of the hazard to aircraft from bird migrations in the Southwest. AFWL-TR-74-175.
- 1976 Hazard to low-level flight training from bird migration in the Southwest. USDI, Fish and Wildlife Service. Laurel, MD.
- 1977 An analysis of avian use of the Milliken Sanitary Landfill. FAA, LAX Airport Authority. Los Angeles, CA.

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ADDENDUM TO JULY 22, 1999, STATUS MEMO

DATE: July 23, 1999

TO: Coastal Commissioners and Interested Parties

FROM: Peter Douglas, Executive Director
Mark Delaplaine, Federal Consistency Supervisor

RE: U.S. NAVY, Surface Warfare Engineering Facility (SWEF)
Port Hueneme, Ventura County
Expert Review Panel Selection

After copying the July 22, 1999 SWEF status memo, the Commission staff received the resume for the third confirmed member of the Expert Review Panel. The resume for John D'Andrea is enclosed with this addendum. As of July 23, 1999, the parties involved have not selected the fourth member of the panel.



JOHN A. D'ANDREA

Present Position:

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Education:

B.S. University of Southern Colorado, 1969, Psychology
M.S. University of Utah, 1972, Physiological Psychology
Ph.D. University of Utah, 1976, Physiological Psychology
Dissertation: Behavioral Effects of Resonant Electromagnetic
Power Absorption in Rats

Summary of Career:

Research Assistant in Psychology	University of Utah	1969-1971
NDEA Fellow	University of Utah	1971-1972
Teaching Fellow in Psychology	University of Utah	1972-1973
Research Assistant, Electrical Engineering	University of Utah	1974-1976
Research Associate, Electrical Engineering	University of Utah	1976-1977
Research Associate, Bioengineering	University of Utah	1976-1977
Research Assistant Professor, Electrical Eng.	University of Utah	1978-1981
Research Assistant Professor, Bioengineering	University of Utah	1978-1981
Research Assistant Professor, Psychology	University of Utah	1978-1981
Research Associate Professor, Electrical Eng.	University of Utah	1982-1984
Research Associate Professor, Bioengineering	University of Utah	1982-1984
Research Associate Professor, Psychology	University of Utah	1982-1984
Head Biopsychology Division	Naval Aerospace Medical Research Laboratory	1984-1989
Head, Aviation Performance Division	Naval Aerospace Medical Research Laboratory	1990-1994
Head, Microwave Department	Naval Medical Research Institute Detachment	1994-1998
Head, Microwave Department	Naval Health Research Center Detachment	1998-Present
Chief Scientist	Naval Health Research Center Detachment	1998-Present

Scientific Organizations:

Institute of Electrical and Electronics Engineers
Bioelectromagnetics Society, Charter Member
IEEE Standards Association
Behavioral Toxicology Society

Representative Publications:

Kesner, R.P. and **D'Andrea, J.A.**, "Electroconvulsive Shock Disrupts Both Information Storage and Retrieval," *Physiology and Behavior*, Vol. 7, 1971, pp. 73-76.

Kesner, R.P. and **D'Andrea, J.A.**, "Proactive Changes in Level of Activity as a Function of Footshock and Electroconvulsive Shock Treatments," *Psychonomic Science*, Vol. 28, 1972, pp. 161-162.

D'Andrea, J.A. and Kesner, R.P., "The Effects of ECS and Hypoxia on Information Retrieval," *Physiology and Behavior*, Vol. 11, 1973, pp. 747-752.

D'Andrea, J.A., Gandhi, O.P., and Kesner, R.P., "Behavioral Effects of Resonant Electromagnetic Power Absorption in Rats," *Biological Effects of Electromagnetic Waves*, selected papers of the 1975 USNC/URSI meeting, Boulder, Colorado, Vol. I, pp. 257-273, [HEW Publication (FDA) 77-8011].

Gandhi, O.P., Hunt, E.L. and **D'Andrea, J.A.**, "Electromagnetic Power Deposition in Man and Animals with and without Ground and Reflector Effects," *Radio Science*, Vol. 12, No. 6(S), 1977, pp. 39-48.

D'Andrea, J.A., Gandhi, O.P., and Lords, J.L., "Behavioral and Thermal Effects of Microwave Radiation at Resonant and Nonresonant Wavelengths," *Radio Science*, Vol. 12, No. 6(S), 1977, pp. 251-256.

Hagmann, M.J., Gandhi, O.P., **D'Andrea, J.A.**, and Chatterjee, I., "Head Resonance: Numerical Solutions and Experimental Results," *IEEE Transactions on Microwave Theory and Techniques*, Vol. 27, No. 9, September 1979, pp. 839-843.

Gandhi, O.P., Hagmann, M.J., and **D'Andrea, J.A.**, "Partbody and Multibody Effects on Absorption of Radio Frequency Electromagnetic Energy by Animals and by Models of Man," *Radio Science*, Vol. 14, No. 6(S), 1979, pp. 15-22.

Smith, M.T., **D'Andrea, J.A.**, and Gandhi, O.P., "Behavioral Effects of Strong 60 Hz Electric Fields in Rats," *Journal of Microwave Power*, Vol. 14, No. 3, 1979, pp. 223-228.

D'Andrea, J.A., Gandhi, O.P., Lords, J.L., C.H. Durney, C.C. Johnson, and L. Astle, "Physiological and Behavioral Effects of Chronic Exposure to 2450 MHz Microwaves," *Journal of Microwave Power*, Vol. 14, No. 4, 1979, pp. 351-362.

D'Andrea, J.A., Gandhi, O.P., Lords, J.L., C.H. Durney, L. Astle, L.J. Stensaas, and A.A. Schoenburg, "Physiological and Behavioral Effects of Prolonged Exposure to 915 MHz Microwaves," *Journal of Microwave Power*, Vol. 15, 1980, pp. 123-125.

Johnson, M.A., Dewitt, J.R., **D'Andrea, J.A.**, Nielson, H.C., and Gandhi, O.P., "Effects of Microwave Radiation on Thresholds for Forced Movements Elicited by Electrical Brain Stimulation," 1978 *Proceedings of the San Diego Biomedical Symposium*, J.I. Martin and E.A. Calvert (editors), Vol. 17, pp. 455-460.

Riazi, A., Hill, D.W., Hagmann, M.J., Gandhi, O.P., and **D'Andrea, J.A.**, "A Broadband Temperature-Controlled System for The Study of Cellular Bioeffects of Microwaves," *IEEE Transactions in Biomedical Engineering*, Vol. 30, No. 11, 1982, pp. 1996-1998.

Dewitt, J.R. and **D'Andrea, J.A.**, "Synergistic Effects of Microwaves and Pentobarbital in Laboratory

Rats." *Journal of Microwave Power*, Vol. 17, No. 4, 1982, pp 282-283.

D'Andrea, J.A., Emmerson, R.Y., C. M. Bailey, Olsen, R.G. and Gandhi, O.P., "Microwave Radiation Absorption in the Rat: Frequency-Dependent SAR Distribution in Body and Tail." *Bioelectromagnetics* Vol 6, 1985, pp 199-206.

D'Andrea, J.A., "Microwave Radiation Effects on Locomotor Behavior in the Rat," in Behavioral Effects of Microwave Radiation Absorption (Eds.). D'Andrea, J.A. and Monahan, J.C., FDA Publication FDA85-8238, 1985, pp. 76-83.

D'Andrea, J.A., DeWitt, J.R., C.M. Bailey and O. P. Gandhi, "Behavioral and Physiological Effects of Chronic 2,450 MHz Microwave Irradiation of the Rat at 0.5 mW/cm." *Bioelectromagnetics* Vol 7, 1986, pp. 45-56.

D'Andrea, J.A., DeWitt, J.R., Emmerson, R.Y., C.M. Bailey, Suzanne Stensaas, and Gandhi, O.P.. "Intermittent Exposure of Rats to 2450 MHz Microwaves at 2.5 mW/cm?: Behavioral and Physiological Effects". *Bioelectromagnetics*, Vol. 7, 1986, pp 315-328.

J.C. Monahan, and **D'Andrea, J.A.** (Eds.), *Behavioral Effects of Microwave Radiation Absorption*, HHS Publication FDA 85-8238, 159 pp., August 1985.

D'Andrea, J.A., DeWitt, J.R., Gandhi, O.P., Stensaas, S., Lords, J.L., and Nielson, H.C., "Behavioral and Physiological Effects of Chronic 2,450-MHz Microwave Irradiation of the Rat at 0.5 mW/cm?." *Bioelectromagnetics*, Vol. 7, pp. 45-56, 1986.

D'Andrea, J.A., and Cobb, B.L., "High Peak Power Microwave Pulses at 1.3 GHz: Effects on Fixed Interval and Reaction Time Performance in Rats, NAMRL-1337, Naval Aerospace Medical Research Laboratory, Pensacola, FL, December 1987. (AD A199 489)

D'Andrea, J.A., Emmerson, R.Y., DeWitt, J.R., and Gandhi, O.P., "Absorption of Microwave Radiation by the Anesthetized Rat: Electromagnetic and Thermal Hotspots in Body and Tail." *Bioelectromagnetics*, Vol. 8, No. 4, pp. 385-396, 1987.

DeWitt, J.R., **D'Andrea, J.A.**, Emmerson, R.Y., and Gandhi, O.P., "Behavioral Effects of Chronic Exposure to 0.5 mW/cm? of 2,450 MHz Microwaves." *Bioelectromagnetics*, Vol. 8, No. 2, pp. 149-157, 1987. (AD A201 388)

D'Andrea, J.A., and Knepton, J., "Construction and Implementation of a Low-cost Electronic Experiment Control Interface." *Behavior Research Methods, Instruments, & Computers*, Vol. 20, No. 2, pp. 97-99, April 1988. (AD A201 788)

D'Andrea, J.A., Knepton, J., Cobb, B.L., Klauenberg, B.J. Merritt, J.H., and Erwin, D.N., *High Peak Power Microwave Pulses at 2.37 GHz: No effect on Vigilance Performance in Monkeys*, NAMRL-USAFSAM Research Report, Naval Aerospace Medical Research Laboratory, Pensacola, FL, November 1989. (AD A219 570)

D'Andrea, J.A., Knepton, J., Cobb, B.L., Shull, R.L., Klauenberg, B.J., Merritt, J.H., and Erwin, D.N., *No Effects of High-Peak-Power Microwave Pulses at 2.36 GHz on Behavioral Performance in Monkeys*, NAMRL-1358 USAFSAM-TR-90-14 Research Report, Naval Aerospace Medical Research Laboratory, Pensacola, FL, 1990.

D'Andrea, J.A., Cobb, B.L., and deLorge, J.O., Lack of Behavioral Effects in the Rhesus Monkey: High Peak Microwave Pulses at 1.3 GHz, *Bioelectromagnetics*, Vol. 10, pp. 65-76, 1989.

D'Andrea, J.A., Knepton, J., and deLorge, J.O., "*Effects of Cholinergic Drug on Exercise Performance and Simple Reaction Time of Rhesus Monkeys*", NAMRL Research Report, NAMRL: 1349, November, 1989.

M.D. Reddix, Devietti, T., Knepton, J., and **D'Andrea, J.A.**, "*The Effect of Three Levels of Laser Glare on the Speed and Accuracy of Target Location Performance when Viewing a Briefly Presented Visual Array*", NAMRL Research Report No. 1359, 1990.

D'Andrea, J.A., and Knepton, J. "*Effect of Laser Glare and Aircraft Windscreen on Visual Search Performance Under Low Ambient Lighting*", NAMRL Research Report No. 1350, 1989.

D'Andrea, J.A., "Microwave Radiation Absorption: Behavioral Effects", *Health Physics*, 61(1), pp 29-40, 1991.

D'Andrea, J.A., Cobb, BL, and Knepton, J.C. *Behavioral Effects of High Peak Power Microwave Pulses: Head Exposure at 1.3 GHz*, NAMRL-1372, Naval Aerospace Medical Research Laboratory, Pensacola, FL, August 1992.

D'Andrea, J.A., Shull, R.N., and Knepton, J.C., Jr., *Aircraft Windscreens Enhance Visual Search Disruption Produced by Laser Glare*, NAMRL-1380, Naval Aerospace Medical Research Laboratory, Pensacola, FL, December 1992. (AD A265 167)

Hatcher, D.J. and **D'Andrea, J.A.**, *A Computer Program to Calculate Planewave Average Specific Absorption Rate in a Prolate Spheroidal Model*, NAMRL Technical Memorandum 92-3, Naval Aerospace Medical Research Laboratory, Pensacola, FL, August 1992. (AD A258 197)

Hatcher, D.J., DeVietti, T.L., and **D'Andrea, J.A.**, *Computer Software and Hardware to Determine Contrast Sensitivity Using Three Methods: Tracking, Limits, or Constant Stimuli*, NAMRL Technical Memorandum 92-4, Naval Aerospace Medical Research Laboratory, Pensacola, FL, December 1992. (AD A265 168)

Reddix, M.D., **D'Andrea, J.A.**, and Collyer, P.D., *Delays in Laser Glare Onset Differentially Affect Target Location Performance in a Visual Search Task*, NAMRL-1367, Naval Aerospace Medical Research Laboratory, Pensacola, FL, January 1992. (AD A246 708)

Reddix, M.D., **D'Andrea, J.A.**, and Collyer, P.D., *The Forward Masking Effects of Low-level Glare on Target Location Performance in a Visual Search Task*, NAMRL-1371, Naval Aerospace Medical Research Laboratory, Pensacola, FL, June 1992. (AD A258 022)

DeVietti, T.L. **D'Andrea, J.A.**, Hatcher, D.J., and Reddix, M.D. A Training Procedure for Obtaining Contrast Sensitivity Functions Within a Single Session in Monkeys. *Bulletin of the Psychonomic Society* 31(4), pp 245-248, 1993.

D'Andrea, J.A., "IEEE Entity Position Statement/The Safety of Electromagnetic Pulse Simulators." In de Lorge, J.O. and Mick, W. (Eds.), *EMP Human Health Effects Science Review Panel Proceedings*, 16-18 March 1993, Theater Nuclear Warfare Program, Washington, DC, and Operational Medicine and Fleet

Support, Washington, DC, 1993, pp. 141-148.

D'Andrea, J.A., Cobb, B.L., and Knepton, Jr., J.C., "Behavioral Effects of High-peak-power Microwave Pulses: Head Exposure at 1.3 GHz." In A.Y.J. Szeto and R.M. Rangayyan (Eds.), *Proceedings of the 15th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, Volume 15*, 28-31 October 1993, San Diego, CA, p. 1466.

D'Andrea, J.A., Cobb, B.L., and Knepton, J., and Bates, F, *Behavioral Performance in Monkeys Exposed to Tempo High-Peak-Power Microwave Pulses at 3 GHz*, NAMRL-1389, Naval Aerospace Medical Research Laboratory, Pensacola, FL, December 1993.

D'Andrea, J.A., Thomas, A., Hatcher, D.J., "Rhesus monkey behavior during exposure to high-peak-power 5.62 GHz microwave pulses." *Bioelectromagnetics*, Vol. 15, No. 2, pp. 163-176, January 1994.

Zirix, J.M., Mason, P.A., Hurt, W.D., **D'Andrea, J.A.**, Arce, M.A., and Petri, J.F. Dosimetry measurements and modeling: interactive presentations in the new dosimetry handbook. In: B.J. Klauenberg and D. Miklavic (Eds.), *Radio Frequency Radiation Dosimetry*, Dordrecht, The Netherlands: Kluwer Academic Publishers (in press).

Mason P.A., Zirix J.M., Hurt W.D., Nelson D.A., and **D'Andrea J.A.** Recent advancements in dosimetry measurements and modeling. In: B.J. Klauenberg and D. Miklavic (Eds.), *Radio Frequency Radiation Dosimetry*, Dordrecht, The Netherlands: Kluwer Academic Publishers (in press).

Mason, P.A., Zirix, J.M., Hurt, W.D. and **D=Andrea, J.A.** 3-Dimensional models for EMF dosimetry. In: *Electricity and Magnetism in Biology and Medicine*, F. Bersani, editor, Plenum Press, 1998.

Zirix, J.M., Furse, C.M., **D=Andrea, J.A.**, Gao, J.-H., Mason, P.A., Hurt, W.D., and Gandhi, O.P. Comparison of FD-TD and experimentally determined local SAR values in a rhesus monkey model. In: *Electricity and Magnetism in Biology and Medicine*, F. Bersani, editor, Plenum Press, 1998.

Mason, P.A., Zirix, J.M., Hurt, W.D., **D'Andrea, J.A.** and Walters, T.J. Convergent technologies in microwave dosimetry. In: *Electricity and Magnetism in Biology and Medicine*, F. Bersani, editor, Plenum Press, 1998.

Chalfin, S., **D=Andrea, J.A.**, Comeau, P.D., Belt, M.E. and Hatcher, D.J., 35 GHz and 94 GHz Microwave absorption in the primate eye. Paper submitted for publication in *Health Physics*.

Ryan, K.L., **D=Andrea, J.A.**, Jauchem, J.R., and Mason, P.A. Radio frequency radiation of millimeter wave length: An evaluation of potential occupational safety issues. Paper submitted for publication in *Health Physics*.

D=Andrea, J. A. Effects of microwave and millimeter wave radiation on the visual system In: B.J. Klauenberg and D. Miklavic (Eds.), *Radio Frequency Radiation Dosimetry*, Dordrecht, The Netherlands: Kluwer Academic Publishers (in press).

Zirix J.M., Furse C.M., **D=Andrea J.A.**, Hatcher D.J., Mason P.A., and Gandhi O.P. Comparison of FD-TD and experimentally determined local and whole-body SAR in a rhesus monkey model. The Second World Congress for Electricity and Magnetism in Biology and Medicine at Bologna, Italy on 8-13 June 1997.

D=Andrea J.A., Ziriak J.M., Thomas A., Hatcher D., Roe J., and Henry P. Chronic exposure to radiofrequency induced body currents in the nonhuman primate. Third Induced and Contact Current (ICC) Workshop at Dahlgren, Virginia on 20-22 May 1997.

Mason P.A., Ziriak J.M., Hurt W.D., Gao J-H., Belt M.E., Roby J.W., Liu Y.J., Pu Y., and **D=Andrea J.A.** Microwave-Induced Changes In Cerebral Blood Flow And Oxygenation As Measured By Functional Magnetic Resonance Imaging (fMRI). Bioelectromagnetics Society Annual Meeting, St. Petersburg, Florida , June 7-11, 1998.

D'Andrea J.A., Ziriak J.M., Roe J., Hatcher D.H., Henry P., Richardson C., and Tovas M. Wrist SAR In The Monkey During Induced Radiofrequency Currents At 6-27 MHz. Bioelectromagnetics Society Annual Meeting, St. Petersburg, Florida , June 7-11, 1998.

D'Andrea, J.A., Behavioral Evaluation of Microwave Irradiation, *Bioelectromagnetics* 20:64-74, 1999.