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EDUCATION

M.A., University of California, Santa Barbara (1997); Geography- GIS and Remote Sensing.

B.A., San Diego State University (1993) -Physical Geography Emphasis
Graduated with Honors- Magna Cum Laude; Distinction in Geography.

A.A., Grossmont Community College (1990), General Education; San Diego, CA.
Graduated with Honors.

TECHNICAL SKILLS

GIS: 11 years ESRI products ArcInfo+AML, ArcView 3.x, ArcGIS, ArcSDE on SQL Server

Operating Systems: UNIX (Solaris), Windows.

Programming languages: HTML, AML, SQL

EXPERIENCE

1998-present: Marin Municipal Water District: GIS Coordinator

- Manage the implementation, development (AML/Avenue/VB), QC, and maintenance of a public utility and natural resources ESRI-GIS (ArcInfo/ArcGIS/ArcSDE) interfaced with SAP Enterprise Software.
- UNIX (Solaris) system administration, Informix/SQL Server database administration.
- Focus lead for SAP R/3 PM Module
- Development of HTML Help Documentation.
- Supervise one employee and oversee various others in their GIS work.
- Primary focus for GIS interaction with external agencies (i.e. MarinMap.org).
- Leadership for Results training certification from Global Achieve.

1994-1998: Remote Sensing Research Unit, Department of Geography,
University of California Santa Barbara.
Post Graduate Researcher; Graduate Student Researcher.

- Managed the design and compilation of a GIS managed areas database (MAD) for the conterminous United States and used it for several overlay and analysis projects.
- Designed and created a Web site for MAD's distribution and feedback.
- Managed a project to create a Marine Protected Areas GIS database for California in cooperation with California Sea Grant Extension Program.

November 1996: Conference support for the Interregional Seminar on Global Mapping for the Implementation of Multinational Environmental Agreements. Remote Sensing Research Unit, University of California, Santa Barbara.

1995-1996: Contributed to potential applications report for NASA's Earth Observing System.

Summer 1995: Taught ArcView tutorial session for the University Space Research Association. Remote Sensing Research Unit, University of California, Santa Barbara.

June 19-22, 1995: Supported NASA's Mission to Planet Earth: Earth Observing System Data Information Systems (EOSDIS) Potential Users Group Conference, Leesburg, VA.

1992-1994: San Diego County Department of Planning and Land Use. Internship.

- Researched technical reports to extract and map information regarding sensitive species, soils, and fire burned areas, then helped to enter this data into the County's Geographic Information System (GIS) for open space corridor planning.
- Inventoried and organized all of the County's biology reports.

Consulting for Expert Witness Testimony:

1997-98: Several land development cases: John E. Estes.

1996-97: Land ownership and disaster responsibility case: John E. Estes.

1996: Oil spill case with the Economics Analysis Corporation (EAC): Robert Deacon, and Charles Kolstad- Economics Department, UC Santa Barbara.

1995: Preparation of materials for a DOJ case involving environmental issues: John E. Estes.

1992: I Love a Clean San Diego County, Inc. (recycling referral service). Volunteer work. Performed marketing and public service duties as well as community outreach work. Helped educate the public about environmental concerns.

HONOR SOCIETIES

Phi Beta Kappa- National Honor Society (since 1993)

Golden Key- National Honor Society (since 1992)

Alpha Gamma Sigma- Grossmont Community College Honor Society (1990)

Dean's List: Spring, 1988/Fall, 1988/Fall, 1992; President's List: Fall, 1989

Vice President's List: Spring, 1991

AWARDS

Lauren C. Post Memorial Scholarship

Arthur Harris Memorial Scholarship

Environmental Systems Research Institute (ESRI) 1995 User's Conference Poster Awards:

- Presentation Award
- 2nd Place: Best Integration (Remote Sensing and GIS)

PROFESSIONAL SOCIETIES & COMMITTEE MEMBERSHIPS

1995-present: American Society for Photogrammetry and Remote Sensing (ASPRS)

1995: Member- Resource Managers and Planners Working Group for NASA's Mission to Planet Earth: Earth Observing System Data Information Systems (EOSDIS) Potential Users Group Conference, Leesburg, VA.

1999-present: Urban and Regional Information Systems Association (URISA)

1999-present: Bay Area Automated Mapping Association (BAAMA)

2000-present: Steering Committee member: MarinMap.org- a multi-agency GIS data/application sharing consortium for Marin County, CA.

2003-present: Founding member of International ESRI-SAP User Group (ESUG)

• See attached for publications / • References available upon request

PUBLICATIONS

McGhie, R. Gavin. 1996. Creating a Comprehensive GIS Database of Managed Areas for the Conterminous United States. *Proceedings from the American Society for Photogrammetry and Remote Sensing/ American Congress on Surveying and Mapping (ASPRS/ACSM) Annual Meeting: 1996*, Baltimore, MD.

ESRI. 1996. Managed Areas Coverage of the Conterminous United States. *ARC News*, Environmental Systems Research Institute, Inc. 18(1): 11.

McGhie, R. Gavin, Joseph Scepan, and John E. Estes. 1996. A Comprehensive Managed Areas Spatial Database for the Conterminous United States: Procedures, Problems, and Relevant Issues Encountered in Compiling and Integrating Multiple Data Sources. *Photogrammetric Engineering and Remote Sensing (PE & RS), Tenth Annual GIS Issue*. 62(11), pp. 1303-1306.

McGhie, R. Gavin. 1996. Creation of a Comprehensive Managed Areas Spatial Database for the Conterminous United States: Summary Project Technical Report (NASA-NAGW-1743). *NCGIA Technical Report 96-4*. NCGIA, University of California Santa Barbara, California.

Estes, John E., Karen D. Kline, and Joseph Scepan. 1997. Report of the Interregional Seminar on Global Mapping for the Implementation of Multinational Environmental Agreements. Remote Sensing Research Unit, University of California, Santa Barbara, CA. Contributing editor.

McGhie, R. Gavin. 1997. Creation and Accuracy Assessment of a Comprehensive Managed Areas Spatial Database for the Conterminous United States. *Unpublished Master of Arts Thesis*, University of California, Santa Barbara, California, USA. 104p.

Scott, J. Michael, Hal Anderson, Bill Bonner, Jim Estes, Jerry Garegnani, Dennis Grossman, Deborah Jensen, R. Gavin McGhie, Gary Myers, Maury Nyquist, Elwynn Taylor, Lisa Warnecke, and Stan Wilds. 1998. Resource Managers and Planners chapter, in Butler, Dixon, Estes, et al. 1998. *Proceedings: EOSDIS Potential User Model Development Effort*, Leesburg, Virginia, June 19-22, 1995. Washington, DC: NASA.

Scott, J. Michael, Frank W. Davis, R. Gavin McGhie, R. Gerald Wright, Craig Groves, and John Estes. 2001. Nature Reserves: Do They Capture the Full Range of America's Biological Diversity? *Ecological Applications, Ecological Issues in Conservation*. 11(4), pp. 999-1007.

CONFERENCE PRESENTATIONS OR POSTERS

Environmental Systems Research Institute (ESRI) 1995 International User's Conference, Palm Springs, CA.: Conterminous USA. Managed Areas Database for Use in Remote Sensing Vegetation Analysis (poster).

National Center for Geographic Information and Analysis (NCGIA), Third International Conference/Workshop on Integrating GIS and Environmental Modeling, Santa Fe, NM. 1996: Conterminous United States Managed Areas Database for Ecosystem Analysis (poster).

Annual Meeting of the American Society for Photogrammetry and Remote Sensing/ American Congress on Surveying and Mapping (ASPRS/ACSM). 1996, Baltimore, MD. (presentation of paper seen in above publications).

Environmental Systems Research Institute (ESRI) 1998 International User's Conference, San Diego, CA.: Integration of Infrastructure and Natural Resources at Marin Municipal Water District (poster).

SAP Public Systems Roundtable, March 2004, SCAG Offices Los Angeles: Integrating ESRI-GIS and SAP; as Experienced by a Small Water Utility (presentation).

Environmental Systems Research Institute (ESRI) 2004 International User's Conference, San Diego, CA.: ESRI SAP User Group (ESUG); Integration of ESRI-GIS and SAP (presentation and demonstration).