

JAMES M. ELLIS, Ph.D.



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EXPERIENCE

Principal (2002 - present), Ellis GeoSpatial, Walnut Creek, California

Established a remote sensing and GIS company to provide focused and timely solutions for industry and government. Deriving new GIS maps, environmental baselines, and change-detection maps from satellite and airborne hyperspectral and multispectral imagery. Acquires new & archived data, processes imagery, integrates DEMs to support visualization and modeling, and builds ready-to-load GIS solutions for geologic and environmental applications. Recent projects in Afghanistan, Middle East, Nigeria, Tanzania, South America, Eastern Europe, China, deepwater Gulf of Mexico, and modern carbonate environments. Certified Veteran-Owned Small Business (Vietnam Era). State of California Professional Geologist - Certificate No. 7391. Develops geologic and environmental images and maps using ENVI 5.3, Erdas Imagine 2014, ArcGIS 10.2.1 with extensions, GlobalMapper 15, and TerraGo Publisher software.

Director, Remote Sensing & GIS (1997-2002), The MapFactory, Walnut Creek, California

Managed team that acquired, processed, integrated, and interpreted digital airborne and satellite-imagery globally. Projects included Mongolia, Nigeria, Papua New Guinea, Australia, Peru, Thailand, and Central Asia. Developed airborne hyperspectral R&D projects funded by international petroleum companies. Part of management team that started-up The MapFactory and Harrods Natural Resources, an international minerals and petroleum exploration company.

Supervisor/Staff Geologist/Geologist (1985-1997), Chevron Overseas Petroleum, San Francisco, California

Provided remote sensing & GIS support for Chevron's international oil & gas exploration and production business units. Managed and interpreted airborne radar surveys in Congo, Indonesia, Papua New Guinea, and Colombia. Developed exploration and logistics maps from remote sensing data globally, including Angola, Nigeria, Namibia, Venezuela, Kazakhstan, Bolivia, and Mexico. Transferred remote sensing technology from research to operations. Completed wellsite geology and seismic interpretation.

Petroleum Geologist (1982-1985), Gulf Oil Exploration and Production Co., Houston, Texas

Visiting Assistant Professor (1981-1982), Geology, Rice University, Department of Geology

EDUCATION

National Science Foundation Postdoctoral Research Rice University (1981-1982)

Ph.D. Geology University at Buffalo, State University of New York (1982)

Institute of Arctic and Alpine Research, University of Colorado, Boulder
(geologic research/courses January-May 1979)

M. A. Geology University at Buffalo, State University of New York (1978)

B. A. Geology University of Rochester (1970)

AFFILIATIONS

Geological Society of America (Chair - Professional Development Committee 2000-2003),
American Society of Photogrammetry and Remote Sensing, Association of Engineering
Geologists, American Association of Petroleum Geologists

DIABLO VALLEY COLLEGE, PLEASANT HILL, CA

GIS-GPS Advisory Committee, Diablo Valley College (2002-2015)

Course Instructor (2002-2015)

Introduction to Remote Sensing (4 Credits, Lecture-Internet PodCast + Lab ERDAS 2011)

Maps & Cartography (3 Credits, Lecture-Internet PodCast + Lab with ArcGIS 10.2)

More info at: <http://www.dvc.edu/academics/psed/physics/gis/index.html>

WORKSHOPS

AAPG Annual Convention, Pittsburgh, PA, May 2013, 1-day SEPM workshop on
Carbonate Rift Analogs (with Mitch Harris & Sam Purkis)

AAPG Annual Convention, Long Beach, 21-22 Apr 2012 and Houston, 9-10 April, 2011,
2-day SEPM workshop on Remote Sensing, GIS, and GeoStatistics for Analyzing
Modern Carbonate Environments (with Mitch Harris & Sam Purkis)

AAPG Annual Convention, San Antonio, TX, 19-20 April 2008, 2-day workshop using
interactive remote sensing & GIS in Caicos Platform, British West Indies

GIS for Exploration Geology, Proprietary In-House Training for Industry using
ArcGIS 9.3, 2008, two 3-day workshops

PUBLICATIONS

Thirty publications in industry journals and conference proceedings, including:

(posters and reprints of many publications available for download at www.ellis-geospatial.com)

2014 Evaluating Water Depth Variation and Mapping Depositional Facies on Great Bahama Bank – A “Flat-Topped” Isolated Carbonate Platform (P.M. Harris, S. Purkis, and J.M. Ellis): *SEPM (Society for Sedimentary Geology) Short Course Notes 56*, ISMB 978-1-56576-316-6, 2-DVD set containing research paper, GIS database, satellite imagery, DEM, GeoPDFs, and GoogleEarth files.

2012 Analogs for Carbonate Deposition in Early Rift Settings (P.M. Harris, J.M. Ellis, and S. Purkis): *SEPM (Society for Sedimentary Geology) Short Course Notes 55*, ISMB 978-1-56576-316-6, 2-DVD set.

USGS Afghanistan U.S. Department of Defense (Task Forces for Business and Stability Operations) Mineral Exploration Report see pages 25-28, 32-34, 44-48

https://000d41a.netsolhost.com/images/USGS_Afghan_OFR_2011-1204_Chapters_1_4A.pdf

Application of Hyperspectral Remote Sensing at Edwards Air Force Base (Tetra Tech, Galileo, EAFB, Ellis GeoSpatial) Poster: ASD & IEEE GRSS sponsored Reflectance Spectroscopy Symposium, Boulder, CO, 23-25 Feb.

2005 Hyperspectral Imaging (J.M.Ellis): *Earth Imaging Journal*, March/April issue, p. 22 – 26.

2001 Exploring for onshore oil seeps with hyperspectral imaging (J.M. Ellis, H.H. Davis, and J. Zamudio): *Oil and Gas Journal*, 10 Sept issue, volume 99. 37, p. 49 - 58.

Multiple applications for airborne hyperspectral sensors (J.M. Ellis, H.H. Davis, and M.B. Quinn): *Proceedings of the Fifth International Conference on Airborne Remote Sensing*, San Francisco, CA, 12-14 September, 8 p.