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AUG 18 2020

APPLICATION FOR "COUNTY OF SANTA BARBARA CITIZENS' INDEPENDENT REDISTRICTING COMMISSION"

SANTA BARBARA COUNTY CLERK, RECORDER AND ASSESSOR

Applications Due By: August 21, 2020, 5:00PM

Application Revised: 6/29/2020

Date Received:

INSTRUCTIONS: Please complete each item below and sign the application. For more information please review the ordinance, visit the redistricting webpage at: www.countyofsb.org/redistricting or email questions to redistricting@countyofsb.org.

Please print legibly in ink or type. When completed, print and sign the application. Submit the application by mail, drop off or email as listed on the signature page.

1. Today's Date: August 17, 2020

2. NAME: McClintock William James
Last First Middle

Santa Barbara 93105
City Zip Code

6. Are you or have you been employed by the County of Santa Barbara? YES No If YES, list:

Department: Title: Date:

Demographic Section: Providing this information is optional. You may select "decline to state" for each answer. County Ordinance Code Section 2-10.9A, (4)(h)(3) requires six of the 11 appointees, in addition to meeting minimum requirements, be chosen in a way that ensures the Commission reflects the County's diversity, including racial, ethnic, geographic, age, and gender diversity. However, formulas or specific ratios shall not be applied for this purpose.

7. Please describe your ethnic origin. Mark one or more boxes.

- BLACK/AFRICAN AMERICAN: All persons having origins in any of the original Black racial groups of Africa.
HISPANIC/LATINO: All persons of Mexican, Puerto Rican, Cuban, Central or South American, or other Spanish culture or origin, regardless of race.
ASIAN: All persons having origins in any of the original peoples of the Far East, Southeast Asia, or the Indian subcontinent including, for example, Cambodia, China, India, Japan, Korea, Malaysia, Pakistan, the Philippine Islands, Thailand, and Vietnam.
NATIVE HAWAIIAN/OTHER PACIFIC ISLANDER: All persons having origins in any of the original peoples of Hawaii, Guam, Samoa, or other Pacific Islands.
AMERICAN INDIAN/ALASKA NATIVE: All persons having origins in any of the original peoples of North and South America (including Central America), and who maintain cultural affiliation or community recognition.

WHITE (not of Hispanic Origin): All persons having origins in any of the original peoples of Europe, North Africa, or the Middle East.

Decline to state

8. Select the gender you identify as:

Female  Male  Non-Binary  Decline to state

9. What is your age: 51  Decline to state

10. EXPERIENCE: Please explain why you are interested in serving and what experience you bring to the Commission. Attach an additional page if necessary.

I am a Senior Fellow at the National Center for Ecological Analysis and Synthesis at UCSB and a citizen of Santa Barbara since 1994. In my work, I engage stakeholders worldwide in the design of ocean zones such as protected areas, fishing zones, aquaculture zones, shipping lanes, recreation zones, etc. Specifically, my lab at the university develops mapping software that democratizes the zoning process.

From 2004-2011, I was the Director of the MarineMap Consortium, the group that developed and implemented the mapping software used to create California's network of Marine Protected Areas (MPAs), zones within state waters that were designed by stakeholders to protect vulnerable marine ecosystems in accordance with California's Marine Life Protection Act (MLPA) of 1999. In this work, I played an impartial role in providing stakeholders with the mapping tools and geospatial data necessary to design MPAs that met science and policy guidelines for ecosystem protection while minimizing economic impacts. Over the six year MLPA process, I attended dozens of public meetings where we emphasized inclusiveness, representation, transparency, and data-driven decision making. At the end of this process, 16% of California's state waters were designated as Marine Protected Areas and each area was hand-drawn by stakeholders.

Since 2011, I have worked locally, regionally and internationally in the development and implementation of SeaSketch ([www.seasketch.org](http://www.seasketch.org)), an application for the collaborative design of marine spatial plans. In short, these are zoning plans that balance the sustainable use of ocean resources while protecting ocean resources. In all cases, plans must represent the collective interests of all stakeholders. My involvement in the zoning process includes traveling to each location and working directly with stakeholders and government officials to use mapping information, elicit their values and interests, and design zones that meet science and policy guidelines. I have worked in the U.S. (California, Oregon, Washington, New York, Michigan, Hawaii), Canada, Barbuda, Montserrat, Curacao, U.K., Sweden, Norway, Spain, Portugal, Reunion Island, Cook Islands, New Zealand, Galapagos Islands, Guyana, Federated States of Micronesia, Indonesia and Australia. Most commonly, my work takes place in high-stakes, high-pressure environments where stakeholders must grapple with disparate viewpoints and try to achieve consensus or near-consensus in their decisions.

Redistricting is a process of drawing electoral district boundaries which in many ways parallels the drawing of ocean zones; the boundaries must be drawn by stakeholders transparently and using the best available data. In part, the job of a commissioner is to ensure equal access to the tools and information required to draw these boundaries equitably. This challenge will manifest in terms of data, technology and process. Personally, I am interested in making sure that the information and tools are made available to our citizens within an efficient and inclusive redistricting process.

11. ADDITIONAL INFORMATION: Give any other relevant information pertaining to your qualifications and experience that bear on your application for the Commission.

I have spent the last 20 years building and implementing geospatial software for collaborative, science-based and transparent spatial planning. I have a B.A. in Biology, M.S. in Animal Behavior, Ph.D. in Ecology, Evolution and Marine Biology and M.A. in Counseling Psychology. As a child, I lived in Poland and China. As a young adult, I lived briefly on the Navajo Reservation in Arizona. I have worked in over two dozen countries. Throughout my entire career, I have embedded myself in planning initiatives that bring together disparate cultures and individuals to co-develop zoning plans that represent the values, interests and needs of all stakeholders. As a Commissioner, I will bring my deep knowledge of science and mapping technologies, respect for disparate viewpoints, and reverence for democracy to the process of redistricting.

**\*Required Selection Criteria: Please answer the following yes/no questions.**

\*Are you a resident of the County of Santa Barbara?

Yes  No

\*Are you registered to vote in the County of Santa Barbara?

Yes  No

\*Have you changed your registered political party affiliation within the past 5 years?

Yes  No

\*Have you voted in Santa Barbara County in at least one of the last three statewide elections?

Yes  No

\*I have read and comply with the provisions of Elections Code § 23003(c), (d) and (e).

Yes  No

\*Do you have any significant financial interest, as defined in County Ordinance Sec. 2-10.9A. - Citizens' Independent Redistricting Commission, in any company, corporation or other business entity that has donated five hundred dollars or more in one year to any candidate for elective office of the County of Santa Barbara, or to any controlled committee, primarily formed committee, general purpose committee, independent expenditure committee that expended funds in support or opposition to a candidate for elective office of the County of Santa Barbara within the last eight years preceding appointment to the commission?

Yes  No

\*Have you or any immediate family member, within the last eight years preceding appointment to the commission, contributed five hundred dollars or more in one year to any candidate controlled committee, primarily formed committee, or general purpose committee, independent expenditures committee or other political action committee that has expended more than one thousand dollars in support or in opposition to the election campaign for any elective office of the County of Santa Barbara?

Yes  No

\*Have you or any immediate family member, within the last eight years preceding appointment to the commission, been a board member, officer, paid or volunteer staff of, or had a significant influence on the actions or decisions of a political committee required to register with the California Secretary of State, which expended funds in excess of five hundred dollars in support or opposition to a candidate for any elective office of the County of Santa Barbara, including member communications.

Yes  No

**How this application will be used:**

I understand the contents of this application may be made available to the public including posting on the internet.

Yes, I understand

I understand that while this application is a public document, my personal e-mail address, street address, and phone number(s) will be kept confidential to the extent authorized by law.

Yes, I understand

**By signing below, I declare under penalty of perjury that the answers provided in this application are true to the best of my knowledge.**

**Signature:**



Completed applications must be received by Friday, August 21, 2020 at 5 p.m. Double check your answers in the application; once submitted, applications cannot be amended. Incomplete applications will not be considered.

**OPTION 1:**

*Mail To:*  
Joseph E. Holland  
Redistricting Commission  
County Clerk, Recorder, Assessor, Registrar of Voters  
P.O. Box 159  
Santa Barbara, CA 93102-0159

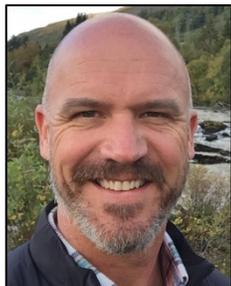
*Drop Off in Person To:*  
Joseph E. Holland Redistricting Commission Assessor's Office  
105 E. Anapamu St, Room 204 Santa Barbara, CA 93101

**OPTION 2:**

E-mail your completed application. Ensure the application is signed (no e-signatures), then e-mail the application to: [redistricting@countyofsb.org](mailto:redistricting@countyofsb.org)

For more information please [review the ordinance](#), visit the redistricting webpage at: [www.countyofsb.org/redistricting](http://www.countyofsb.org/redistricting) or email questions to [redistricting@countyofsb.org](mailto:redistricting@countyofsb.org).

## William J. McClintock



**Project Scientist**  
Marine Science Institute  
University of California  
Santa Barbara, CA 93106

**Senior Fellow**  
National Center for  
Ecological Analysis and  
Synthesis  
Santa Barbara, CA 93106



### Education

- Ph.D., Ecology, Evolution & Marine Biology, University of California, Santa Barbara, 2000.
- M.A., Counseling Psychology, Pacifica Graduate Institute, 2003.
- M.S., Biology, University of Cincinnati, 1994. Awarded Outstanding Master of Science.
- B.A., Biology, Earlham College, 1991. Awarded Honors on Senior Comprehensive Exams.

### Experience

*Project Scientist*, University of California, Santa Barbara, CA. 2005-present.  
Director, MarineMap Consortium 2005-2011, Technical Director for the California Marine Life Protection Act (MLPA) Initiative. Obtained over \$11 million in grants, contracts and gifts including a \$500,000 gift from Jack Dangermond (Esri CEO) and \$3,100,000 grant from the Waitt Foundation to develop global marine planning software. Manage teams of scientists, technologists and planners in the design, implementation and monitoring of marine protected areas. Awarded "Innovation in Technology" from U.S. Institute for Environmental Conflict Resolution, 2010. Developed SeaSketch ([www.seasketch.org](http://www.seasketch.org)), eCatch, AbRuler, FishPath and eFINs (applications for fisheries science, monitoring and enforcement). Executive Board Member, UCSB Center for Spatial Studies, 2014-2016. Member of the Marine Protected Areas Federal Advisory Committee.

*Senior Fellow*, National Center for Ecological Analysis and Synthesis, 2017-present.  
Collaborating with scientists and software developers to create and implement software for collaborative decision making and open science.

*Senior Fellow*, United Nations Environment Programme – World Conservation Monitoring Centre, 2012-2014.  
Collaborated with scientists and technologists at UNEP-WCMC and UCSB's Center for Marine Assessment and Planning (CMAP) to implement SeaSketch for Marine Protected Area Planning in Areas Beyond National Jurisdiction.

*Postdoctoral Research Biologist*, University of California, Santa Barbara, CA 2000-2005.  
Designed, constructed and maintained Geographic Information Systems (GIS) products, services and analyses for large scale marine ecological and oceanographic consortia (PISCO, Moorea Coral Reef LTER, Santa Barbara Coastal LTER). Developed California Marine Geodatabase and related GIS and Internet Map Services and Metadata Server for to aid the Marine Life Protection Act (MLPA) process and assisted in the development of a decision support tool for establishing state-wide network of marine protected areas (MPAs). Supervised GIS interns, advised Environmental Management Masters students in GIS project development. Installed, configured and administrated server hardware and software. Assisted in data and metadata management for large scale research consortium.

*Doctoral Student (Ph.D.)*, University of California, Santa Barbara, CA, 1994-2000.  
Researched the evolution of communication in *Schizocosa* wolf spiders using computer animation and molecular phylogenetic techniques. Field research in all continental U.S. states in a wide variety of habitats. TA for Evolution Introductory Biology I & II, received teaching grant for developing web-based materials for course in evolutionary biology, served on committee for new faculty hire, presented research at annual conferences, published 2 articles in peer-reviewed journals.

*Masters Student (M.S.)*, University of Cincinnati, Cincinnati, OH, 1992-94.

Researched spider behavior using innovative video manipulation techniques. Teaching Assistant for five quarters for courses in human anatomy and ecology, President of the Biology Graduate Student Association, presented research at national meetings, published 2 articles in peer-reviewed journals.

## **Grants, Contracts and Fellowships**

- Waitt Foundation, \$3,146,583, 2020.
- The Nature Conservancy, \$120,000, 2019.
- California Ocean Science Trust, \$17,000, 2017.
- Waitt Institute, \$20,000, 2017.
- National Oceanic and Atmospheric Administration, \$13,265, 2017
- Swedish Agency for Marine and Water Management, \$41,000, 2017.
- Tides of Canada. \$16,580, 2017
- New South Wales Government \$17,265, 2017
- The Nature Conservancy, \$105,512, 2017.
- New Zealand Department of Conservation, \$113,000, 2016.
- The Nature Conservancy, \$200,000, 2016.
- WWF Canada, \$9,543. 2015.
- Fathom Consulting, \$26,048, 2015.
- Santa Barbara Foundation, \$73,140, 2015.
- The Nature Conservancy, \$30,000, 2015.
- NOAA, \$130,360, 2015.
- Waitt Institute, \$140,440, 2015.
- Tides Canada Initiatives Society – MaPP, \$10,000, 2015.
- New Zealand Department of Conservation, \$32,000, 2015
- Joint Nature Conservation Committee, \$5,326, 2015.
- The Nature Conservancy, \$600,000, 2015.
- The Waitt Institute, \$120,000, 2015.
- Bureau of Ocean Energy Management, \$39,927, 2014.
- New Zealand Department of Conservation: \$90,000, 2013.
- Department of Primary Industries, New South Wales: \$20,219, 2013.
- National Oceanic and Atmospheric Administration: \$15,000, 2013.
- Joint Nature Conservation Commission (UK): \$12,000, 2013.
- Wait Foundation (Blue Halo Initiative): \$121,000, 2013.
- Marine Planning Partnership (British Columbia), \$121,991, 2013.
- Marine Planning Partnership (British Columbia), \$192,693, 2013.
- Northeast Regional Ocean Council, \$15,000, 2012.
- New Zealand Department of Conservation, \$81,754, 2012.
- New Zealand Department of Conservation, \$199,000, 2012.
- Jack Dangermond, ESRI, \$500,000 (Gift), 2011.
- Oregon Department of Fish and Wildlife, \$18,000, 2010.
- Tides Foundation, \$150,000, 2010.
- Resources Legacy Fund Foundation, \$633,199, 2010.
- Santa Monica Bay Restoration Commission, \$38,000, 2008.
- Resources Legacy Fund Foundation, \$811,205, 2008.
- Resources Legacy Fund Foundation, \$500,000, 2008
- Santa Monica Bay Restoration Commission, \$75,602, 2007.
- Resources Legacy Fund Foundation Grant, \$203,196, 2007-2008.
- Resources Legacy Fund Foundation Grant, \$23,988, 2006.
- Resources Legacy Fund Foundation Grant, \$54,076, 2005-2006.
- Departmental Regents Fellowship, UCSB, \$9,815, 1998-99
- Ph.D. Candidate's Fellowship, UCSB, 1997-98, \$13,689.
- Animal Behaviour Society Grant, \$990, 1997.
- NSF Doctoral Dissertation Improvement Grant, \$10,000. 1997.
- American Arachnological Society Fund, \$614, 1997.
- Graduate Student Fee Fellowship, Dept. Ecol. Evol. & Mar. Biol., UCSB, \$1,300, 1997.
- Departmental Block Grant, Dept. of Biological Sciences, UCSB, \$5,179, 1995.
- Sigma Xi, Grants In Aid of Research, \$500, 1995.
- Harry L. Wieman Summer Fellowship, University of Cincinnati, \$825, 1994.

- Sigma Xi, Grants In Aid of Research, \$375, 1993.

## **Awards and Honors**

- Finalist, Kenton Miller Award: Innovation, IUCN World Commission on Protected Areas, 2017. <https://goo.gl/gPJ3wN>
- Innovation and Technology in Environmental Conflict Resolution, U.S. Institute for Environmental Conflict Resolution, 2010.
- Nominated, Outstanding Teaching Assistant, Grad. Student Assoc., UCSB, 1999.
- Nominated, Outstanding Teaching Assistant, UCSB, 1998 & 1999.
- Outstanding Master of Science Student Award, University of Cincinnati, 1994.
- 1st Prize, Ohio Valley Entomological Association Student Paper Competition, 1993.
- Honorable Mention, Best Poster Paper of the Animal Behavior Society, Davis, CA, 1993.
- Millard S. Markle Award in Biology, Earlham College, 1991.

## **Presentations at Professional Meetings**

- Environmental Conflict Resolution: Combining Software and Process. AAG, Boston, 2017.
- Evaluating Stakeholder Engagement with Decision Support Tool Use Metrics. IMPAC4, La Serena, Chile. 2017.
- Federal Mapping Efforts in SeaSketch. Coastal Geotools, Charleston, NC, 2017.
- SeaSketch: Web-based software as a service for coastal and marine spatial planning, Osaka, 2016.
- GeoDesign and aquaculture zoning in the context of marine spatial planning in New Zealand. World Aquaculture Conference, Las Vegas, 2016.
- Integrated Participation Tool: Facilitate Science Based Spatial Planning with a Web-based GIS. Coast GIS, Cape Town, South Africa, 2015.
- Comprehensive Zoning in Barbuda using Collaborative Geodesign Technology. Coast GIS, Cape Town, South Africa, 2015.
- I'd be hosed without AWS. Amazon Web Services Special Interest Group, Esri UC, 2015.
- Spatial models, geodesign and participatory planning with SeaSketch. AAAS, 2015.
- Collaborative technologies for marine spatial planning. AGEDI Oceans and Blue Carbon Special Initiative, Abu Dhabi, 2014.
- Software as a Service for Marine Spatial Planning. International Marine Conservation Congress, Glasgow, 2014.
- Evaluating Cumulative Impacts with GeoDesign in SeaSketch. Esri International User Conference, 2014.
- SeaSketch: A web-based decision support system used by the Marine Planning Partnership (MaPP) of the North Pacific Coast. Halifax, CA, 2014.
- SeaSketch: A platform for Marine Spatial Planning, GeoHab Conference, Lorne, Australia, 2014.
- Marine Spatial Planning in the US using SeaSketch, NOAA Social Coast Forum, Charleston, 2014.
- Emerging Technologies for Marine Conservation. International Marine Protected Areas Congress, Marseille, France, 2013.
- Integrating Marxan and SeaSketch. Marxan Workshop, Marseille, France.
- World Wide Application of SeaSketch, Esri International User Conference, 2013.
- SeaSketch for Marine Spatial Planning. Coast GIS, Victoria, BC, 2013.
- SeaSketch as an Out-of-the-Box Solution. International Coastal Atlas Network, British Columbia, 2013.
- GeoDesign Technologies, Esri User Conference, San Diego, 2012.
- GeoDesign and Marine Spatial Planning, Coastal Zone Canada, 2012.
- Designing for our Oceans, Eye on Earth Summit, Abu Dhabi, 2012.
- Designing for our Oceans, GeoDesign Summit, Redlands, CA 2012. (<http://bit.ly/yjoaEs>)
- MarineMap: An Innovative Collaborative Support Technology Improving Community Engagement. EPA Community Involvement Training Conference, Arlington, VA, 2011.
- MarineMap and Ocean Planner: Nationwide Coastal and Marine Spatial Planning with Web Based Tools. Coastal Zone '11, Chicago, IL, 2011.
- OceanPlanner: The Next Generation MarineMap. Oceans Special Interest Group Meeting, ESRI User Conference, San Diego, CA, 2011.
- Citizen-Friendly Decision Support Tools for Marine Spatial Planning. International Marine Conservation Congress, Victoria, BC, 2011.

- West Coast Participatory Mapping. International Marine Conservation Congress, Victoria, BC, 2011.
- Bringing Collaborative, Science-Based Decision Making to the General Public. COMPASS Invited Breakfast, CWO Conference, San Francisco, CA, 2010.
- Cumulative Impacts Analysis in MarineMap. CWO Conference, San Francisco, CA, 2010.
- MarineMap for Environmental Conflict Resolution, ECR Conference, Tucson, AZ, 2010.
- Special Symposium: MarineMap - Implementation for MPA Planning in California and the Implications for Marine Spatial Planning as a Whole. CalGIS, Huntington Beach, CA, 2010.
- Open-source Marine Spatial Planning Tools, International Conference on Coastal Conservation and Management, Lisbon, Portugal, 2010.
- Web-Based Marine Spatial Planning, American Association for the Advancement of Science, San Diego, 2010.
- MarineMap. Washington, DC., International Marine Conservation Congress, 2009.
- MarineMap. Where Faire, Where 2.0, San Jose, CA, 2009.
- Participatory MPA Planning Using the Internet. GIS In Action, Vancouver, WA, 2009.
- MarineMap: Participatory Marine Protected Area Design Using a Web-Based Open Source Tool. Coastal Geotools '09, Myrtle Beach, SC, 2009. (M. Merrifield, Charles Steinback co-authors)
- Doris: ArcGIS Server Tool Supports Marine Planning in California. ESRI International Users Conference, 2008. San Diego, CA. (M. Merrifield, co-author.)
- Designing California's MPAs with Web-Based Tools. Society for Conservation Biology conference, 2008. Chattanooga, TN. (M. Merrifield and M. Gleason, co-authors.)
- Decision support tools for planning marine protected areas. American Association of Geographers conference, 2008. Boston, MA. (M. Merrifield, M. Gleason and P. Serpa, co-authors.)
- Geospatial decision support tools for planning of marine protected areas in California. European MPA Symposium, 2007. Murcia, Spain. M. Merrifield, M. Gleason and P. Serpa, co-authors.)
- Marine Protected Area Planning in California Supported by a GIS-Based Decision Support System. Coastal Geotools, 2007. Myrtle Beach, SC. (M. Gleason, P. Serpa, M. Merrifield, co-authors.)
- A decision support system for stakeholders, scientists, and policy-makers in the MPA planning process. California and the World Ocean's '06 conference, 2006. (M. Gleason, P. Serpa, C. Ball, B. Sherwood, B. Pfefferle, co-authors)
- Server based tools and geodatabase to support disparate users involved with marine planning in California. Conservation Biology Society meeting, 2006. (M. Gleason, P. Serpa, C. Ball, B. Sherwood, B. Pfefferle, co-authors)
- Decision support for regional marine protected areas planning in California. Society for Conservation Biology meeting, 2006. (M. Gleason, P. Serpa, C. Ball, B. Sherwood, B. Pfefferle, co-authors)
- CCOG: The California Coastal Ocean Geodatabase. Coastal Geotools, 2005, Myrtle Beach, SC. (B. Kinlan, co-author).
- The role of environmental change in the emergence of infectious diseases: using the PDV epidemics in European harbor seals as a model system. Conservation Biology, 2004, New York, NY. (K.F. Smith and H Gjosaeter, co-authors.)
- Environmental change and the dynamics of Northeast Atlantic harp seal migrations: implications of sea-ice, regional fish abundance, and potential links to harbor seal epidemics. Western Society of Naturalists, 2003, Longbeach, CA. (K.F. Smith, presenter)
- The function of leg-waving behavior in male *Schizocosa ocreata* courtship. International Arachnological Congress, 1998, Chicago, Illinois.
- International Ethological Conference, Vienna, Austria, 1997. "Video playback methods: Problems and Pitfalls"
- Animal Behavior Society annual meeting, Univ. of Washington, 1994. "Sexual selection for sensory exploitation in wolf spiders"
- The Midwest Ecology and Evolution Conference, Northern Illinois Univ., 1994. "Sensory bias or residual preference: mate choice in spiders"
- The Ohio Valley Entomological Association Student Paper Competition, 1993. "Testing the sensory exploitation hypothesis with a model spider system"

- Animal Behavior Society annual meeting, Univ. California, Davis, 1993. (Poster) "Manipulation of male secondary sexual characters with video imaging affects female choice in wolf spiders (Araneae: Lycosidae)"
- American Arachnological Society annual meeting, Univ. of Washington, 1993. "Female choice for male secondary sexual characters in two congeneric spiders (Araneae: Lycosidae)"

## Invited Seminars

- SeaSketch and Marine Spatial Planning, SEA Program, Jakarta, 2018.
- Marine Spatial Planning, Erasmus Mundus Cours on marine Spatial Planning, University of Azores, 2018.
- Collaborative Protected Area Planning, Explorer's Club, New York City, 2018.
- GeoDesign for Marine Spatial Planning in Portugal. Faculdade de Ciências Sociais e Humanas, Lisbon, Portugal. 2018.
- Workshop: Collaborative Marine Spatial Planning with Seasketch in Cape Verde. Mindelo, Cape Verde. 2018.
- Workshop: Collaborative Marine Protected Area Planning using SeaSketch for Norway. Arendal, Norway, 2017.
- Workshop: Collaborative Marine Spatial Planning in the Western Indian Ocean. WIOMSA, Dar es Salaam, Tanzania, 2017.
- GeoDesign and Modeling in Marine Planning. Coastal and Ocean Policy, Bren School of Environmental Science, 2017.
- Collaborative GeoDesign of Ocean Zones: How Communities Safeguard Fisheries. Freshman Seminar on Spatial Thinking, UCSB. 2017.
- Marine Spatial Planning, Erasmus Mundus Course on Marine Spatial Planning, University of Azores, 2017.
- Keynote Speaker:** Collaborative Marine Spatial Planning, Blue Tech Week, San Diego, 2016.
- Sustainable Ocean Software, Consultative Group on Biodiversity, 2016.
- Aquaculture Planning in Maine, Darling Marine Center, University of Maine, 2016.
- Cumulative Impact Models and GeoDesign in British Columbia, Bren School, UCSB, 2016.
- Collaborative GeoDesign of Ocean Zones. Freshman Seminar, Computer Science, UCSB. 2015.
- SeaSketch. IUCN Ocean Teachers Academy, Cape Town, South Africa, 2015.
- Marine spatial planning in the Lesser Sunda Ecoregion. Bali, 2015.
- Introduction to Ocean Data Platform (SeaMonitor). Caribbean Marine Biodiversity Program Regional DSS Planning Workshop, Miami, 2015.
- SeaSketch for Marine Spatial Planning. Marine GIS User Group, Monterey, CA, 2015.
- Engaging Solutions for Engaging Problems. Consultative Group on Biodiversity, Marines, San Diego, 2015.
- Expressing opinions through geodesign technologies. Freshman Seminar, Geography Department, UCSB, 2014.
- Doing ocean planning. Maritime Alliance Blue Tech Summit, San Diego, 2014.
- Collaborative geodesign and marine spatial planning, Coastal Oceans and Policy, Bren School of Environmental Science and Management, 2014.
- Cumulative Effects and Ocean Planning in SeaSketch, Prince Rupert, BC, 2015.
- SeaSketch for Sea Change, New Zealand Department of Conservation, Wellington, 2014.
- Stakeholder Training for Hauraki Gulf MSP, Auckland, New Zealand, 2014.
- SeaSketch for Collaborative Wind Farm Siting, Channel Wind Symposium, Santa Barbara, CA, 2013.
- Tools for Marine Spatial Planning. Bodega Marine Lab, 2013.
- Planning Tools for the Commonwealth. Commonwealth Secretariat, London, UK.
- SeaSketch, UCSB Geography Colloquium, 2013.
- Planning Tools for Coastal and Marine Spatial Planning. Waitt Foundation, San Diego, 2013.
- Digital Mapping Technologist. California Map Society, Santa Barbara, CA, 2013.
- Planning for Sea Level Rise with SeaSketch. Sea Level Rise Workshop, UCSB, 2013.
- Planning in Areas Beyond National Jurisdiction. United Nations Environment Programme – World Conservation Monitoring Centre, Cambridge, UK, 2013.
- How Web Technologies are Used to Support Marine Spatial Planning. Joint Nature Conservation Committee, Peterborough, UK, 2013.

- Technology, Citizen Engagement and SeaSketch. Institute of Marine Sciences, Barcelona, Spain, 2012.
- SeaSketch and Marine Spatial Planning. Center for Ocean Solutions, Monterey, CA, 2012.
- An Emerging Platform for Collaborative, Map-Based Planning. University of California Natural Reserve System, Managers Meeting, 2012.
- Collaborative GeoDesign with SeaSketch. Marine GIS User Group, Monterey, CA, 2012.
- The Arab Spring for Our Oceans. Blue Horizons, UCSB, 2012.
- Putting Science Into Action. Wilson Institute, Washington, DC, 2012.
- SeaSketch for Collaborative Geodesign. World Wildlife Fund. Washington, DC., 2012.
- SeaSketch for New Zealand Marine Spatial Planning. Hosts: NZ Department of Conservation. Auckland, Wellington and Hamilton, NZ, 2012.
- Plenary Speaker:** SeaSketch. Esri International User Conference, San Diego, CA, 2012. (<http://goo.gl/K96jyD>)
- Remote Sensing Technologies for Marine Spatial Planning. Panel Discussion, Society for Conservation GIS, Monterey, CA, 2012.
- MarineMap, SeaSketch and MPA Planning in California. NOAA/TNC Workshop, Fort Lauderdale, FL, 2012.
- A Technologists Perspective on Marine Spatial Planning, Marine Management Organization, Newcastle, UK, 2012.
- Plenary Speaker:** How Citizens May be Involved in Ocean Protection with SeaSketch. International Whale Conference, Brighton, UK, 2012.
- SeaSketch for NOAA. Presentation to NOAA Leadership at NOAA Headquarters, Washington, DC, 2012.
- Bottom-up, Science-based Decision Making for Marine Spatial Planning. National Academy of Sciences, Washington, DC, 2012.
- Web-Based Decision Support Tools for Planning the Cook Islands Marine Park. Rarotonga, Cook Islands, 2012.
- Tools for Marine Spatial Planning. United Nations Environment Program LifeWeb Workshop, Panama City, Panama, 2012.
- Protecting our Oceans: Power to the People, Esri, Redlands, CA, 2011.
- Using MarineMap and SeaSketch for International Stakeholder Involvement in Marine Planning. MAIA Workshop, Totnes, England, 2011.
- Collaborative GeoDesign for Marine Spatial Planning, Marine Think Tank, SCB, Auckland, NZ, 2011.
- OceanPlanner for Nationwide Marine Spatial Planning in New Zealand. Wellington, 2011.
- Moc-MPA Planning with MarineMap. Coastal Zone '11, Chicago, IL, 2011.
- GeoDesign for Marine Spatial Planning. Spatial @ UCSB, Santa Barbara, CA, 2011.
- Experiencing Marine Protected Area Planning with MarineMap. Center for Ocean Solutions Workshop, Victoria, B.C., 2011.
- A Conceptual Model and Web-Based Framework for Marine Spatial Planning Tools. The Nature Conservancy Marine Aggregation, Assilomar, CA, 2011.
- Mapping Intertidal Monitoring Data with MarineMap, Multi-Agency Rocky Intertidal Network Workshop, Santa Barbara, CA, January, 2011.
- MarineMap for Coastal and Marine Spatial Planning, Bureau of Ocean Energy Management, Regulation and Enforcement, Camarillo, CA. November, 2010.
- Using MarineMap in a Mock MPA Planning Exercise, ESM 207, Bren School, November, 2010.
- Federal MPA Advisory Committee, Santa Barbara, CA, November, 2010.
- MarineMap Version 2.0. Ecosystem Based Management Tools Network, May, 2010.
- MarineMap for Marine Spatial Planning, Coastal and Oceans Working Group, CalGIS, Oakland, CA, May, 2010.
- Marine Protected Area Planning in California, Bren School for Environmental Science and Management, 5/17/2010.
- Open Source, Web-Based Technologies for Spatial Planning, UCSB Geography Department Colloquium, March, 2010.
- Decision support for England: MarineMap MCZ. Joint Nature Conservation Commission, Peterborough, England, September, 2009.
- MarineMap, Brown-Bag Forum on Spatial Thinking, UCSB Geography Dept., 2009.
- COMPASS Dinner, Coastal Zone '09, Boston, MA, 2009. "MarineMap and the MLPA."
- Santa Barbara Yacht Club, 2009. "Involving Yourself in Southern California's MPA Design Process."

- NOAA Marine Spatial Planners Group, Webinar, 2009. "MarineMap."
- UCSB, Sustainable Fisheries Group, 2009. "GIS and Spatial Data"
- EBM Tools Network, Webinar, 2009. "Tools for MPA Planning."
- Bren School, University of California Santa Barbara, 2009. "Tools for MPA Planning."
- Ventura City College, World GIS Day, Keynote Speaker, 11/21/08. "MarineMap: Geospatial Tools for Marine Planning."
- Ocean Policy Advisory Council, Newport, Oregon, 3/23/07. "California's Marine Life Protection Act Initiative Decision Support System."
- National Center for Ecological Analysis and Synthesis, 9/06. "The California Marine Geodatabase."
- Ecotrust, Inc., Portland, Oregon, 7/13/06. "California's Marine Life Protection Act Initiative Decision Support System."
- Ventura College, Ocean Explorers World GIS Day, Keynote Speaker, 11/19/04. "Geographic Information Systems in the Marine Sciences."
- University of California Santa Barbara, Department of Ecology, Evolution and Marine Biology, 1/25/99. "The evolution of multi-modal signaling in wolf spiders."
- University of Kentucky, Entomology Department, Lexington, Kentucky, 10/15/93. "Sexual selection for sensory exploitation in wolf spiders."
- Earlham College, Biology Department, Richmond, Indiana, 9/20/93. "Female mate choice in *Schizocosa* wolf spiders."
- Ball State University, Biology Department, Muncie, Indiana, 9/17/93. "Sex, eyes and videotape: the use of video imaging in studying intersexual selection." .

## Publications

- Gosnell, J.S., W. McClintock, and M. Lee. 2020. Building marine reserve networks to fit multiple needs: an introduction to marine spatial planning using SeaSketch. *Lessons in Conservation* 10(1):12–28. <http://bit.ly/2SsoRiB>
- Johnson, A. E. W. J. McClintock, O. Burton, W. Burton, A. Estep, K. Mengerink, R. Porter & S. Tate. 2020. Marine Spatial Planning in Barbuda: A social, ecological, geographic and legal case study. *Marine Policy*, 113. <https://doi.org/10.1016/j.marpol.2019.103793>
- Flower, J., R. Ramdeen, A. Estep, L.R. Thomas, S. Francis, G. Goldberg, A.E. Johnson, W. McClintock, S.R. Mendes, K. Mengerink, M. OGarro, L. Rogers, U. Zischka & S.E. Lester. 2020. Marine spatial planning on the Caribbean island of Montserrat: lessons for data-limited small islands. *Conservation Science and Practice*. <https://doi.org/10.1111/csp2.158>
- Goldberg, G., Hastings, S. and W. McClintock. 2018. SeaSketch for Safe Passage: Collaborative mapping helps conflicting marine interests work toward shared goals. *Proceedings of the United States Coast Guard*, Spring, 2018, pp 77-81.
- Goldberg, G., D'Iorio, M. and W. McClintock. 2017. Applied marine management with volunteered geographic information. *In Geoinformatics for Applied Coastal and Marine Management*. Esri Press.
- W. Kuhn, McClintock, W., and G. Goldberg. 2016. SeaSketch in the Classroom: A Practitioner's Tool in the Education Context. *In STEM and GIS in Higher Education*. Esri Press.
- Goldberg, E.G., and W.J. McClintock. 2015. Integrated Participation Tools Facilitate Science-based Spatial Planning with a Web-based GIS. *Proceedings of the 12th International Symposium for GIS and Computer Cartography for Coastal Zone Management*. 154-57.
- McClintock, W. 2013. GeoDesign: Optimizing stakeholder-driven marine spatial planning. *Proceedings of the United States Coast Guard*, Fall, 2013, 70-74.
- Merrifield, M., W. McClintock, C. Burt, E. Fox, M. Gleason, P. Serpa and C. Steinback. 2013. MarineMap: a web-based platform for collaborative marine protected area planning. *Ocean & Coastal Management*, 74: 67-76.
- Gleason, M., S. McCreary, M. Miller-Henson, J. Ugoretz, E. Fox, M. Merrifield, W. McClintock, P. Serpa, K. Hoffman. 2010. Science-based and stakeholder-driven marine protected area network planning: A successful case study from north central California. *Ocean & Coastal Management*, 53(2): 52-68.
- Greenberg, D.B. and McClintock, W.J. 2008. Remember the Third Dimension: Terrain Modeling Improves Estimates of Snake Home Range Size. *Copeia*, 2008, 801-806.
- McClintock, W. J. & Dodson, G. N. 1999. Notes on *Cyclosa insulana* (Costa) (Araneae: Araneidae) of Papua New Guinea. *Journal of Arachnology*, 27, 685-688.

- Fleishman, L. J., McClintock, W. J., D'Eath, R. B., Brainard, D.H., & Endler, J. A. 1998. Colour perception and the use of video playback experiments in animal behaviour. *Animal Behaviour*, 56, 1035-1040.
- McClintock, W.J. and Uetz, G.W. 1996. Female choice and pre-existing bias: visual cues during courtship in two *Schizocosa* wolf spiders (Araneae; Lycosidae). *Animal Behaviour*, 52, 167-181.
- Uetz, G.W., McClintock, W.J., Miller, D. Smith, E., and Cook, K.K. 1996. Limb regeneration and subsequent asymmetry in male secondary sexual character influences sexual selection in wolf spiders. *Behavioural Ecology and Sociobiology*, 38, 253-257.

## Research Products

- Fishpath. Web-based application for fisheries management developed in collaboration with The Nature Conservancy.
- AbRuler. iOS application for automated field measurements of abalone length.
- eFINS. iOS application for wardens to track enforcement efforts inside and outside California's Marine Protected Areas. In collaboration with the Channel Islands National Marine Sanctuary and California Department of Fish and Wildlife.
- eCatch. iOS application for fishermen to enter and track fishing effort and bycatch. In collaboration with The Nature Conservancy.
- SeaSketch. <http://seasketch.org>.
- NOAA's Office of Ocean Exploration and Research Planning Tool (<http://explore.seasketch.org>) *private*
- Lesser Sunda Ecoregion (<http://lse.seasketch.org>) *private*
- British Columbia Cumulative Effects (<http://cebc.seasketch.org>)
- Safe Passages SeaSketch Project (<http://safepassages.seasketch.org>) *offline*
- PACIOCEA SeaSketch Project (<http://paciocea.seasketch.org>) *offline*
- Barbuda Blue Halo Initiative SeaSketch Project (<http://barbuda.seasketch.org>)
- MaPP SeaSketch Project (<http://mapp.seasketch.org>)
- SeaChange SeaSketch Project (<http://seachange.seasketch.org>)
- Northeast Ocean Partnership SeaSketch project (<http://nop.seasketch.org>)
- UK Map SeaSketch Project (<http://jncc.seasketch.org>)
- Cook Islands Marine Park SeaSketch Project (<http://cookislands.seasketch.org>) *offline*
- Great Lakes Wind Collaborative Regional Wind Siting Tool Prototype (<http://glwc.seasketch.org>)
- NOAA's Habitat Blueprint project in SeaSketch (<http://habitatblueprint.seasketch.org>)
- NOAA's Integrated Ocean and Coastal Mapping Sandy Coordination project in SeaSketch (<http://noaa-ocs.seasketch.org>)
- NOAA and BOEM's Pacific Regional Ocean Uses Atlas project in SeaSketch (<http://proua.seasketch.org>). *offline*
- Global Cumulative Impacts Assessment Tool in SeaSketch (<http://impacts.seasketch.org>)
- Ocean Acidification tool for the National Socio-environmental Synthesis Center (<http://oa.seasketch.org>)
- National Park Service Kelp Forest Monitoring Application. (<http://pyrifera.marinemap.org>). *offline*
- MarineMap for Cumulative Human Impacts Assessment. In collaboration with Ben Halpern, NCEAS.
- Oregon MarineMap: Web-based decision support system for coastal and marine spatial planning (<http://oregon.marinemap.org>) *offline*
- California MarineMap: Web-based decision support system for collaborative geospatial marine planning. (<http://southcoast.marinemap.org/>). *offline*
- Partnership for Interdisciplinary Studies of Coastal Oceans Geographic Information System and Internet Mapping Service, 2002-2004.
- Moorea Coral Reef Long Term Ecological Research Geographic Information System and Internet Mapping Service, 2005.
- Marine Life Protection Act Geographic Information Systems Metadata Server. Marine Life Protection Act Initiative, 2005.
- Marine Life Protection Act (MLPA) Internet Mapping Service (IMS). Marine Life Protection Act Initiative, 2005.
- Doris: MPA Decision Support Tool. Marine Life Protection Act Initiative, 2006-2008.
- California Marine Geodatabase. Marine Life Protection Act Initiative, 2005.

## **Professional Service**

Member, Mapping Ocean Wealth Advisory Board, The Nature Conservancy, 2019-present.  
Member, Marine Protected Areas Federal Advisory Committee, 2017-2019.  
Chair, Academic Review Committee, MSI, 2017.  
Reviewer, ICES Journal of Marine Science, 2017.  
Executive Board Member, UCSB Center for Spatial Studies, 2014-present.  
Ambassador, The Maritime Alliance, 2015-present.  
Scientific Computing Committee, UCSB Marine Science Institute, 2013-present.  
Reviewer, Social Sciences and Humanities Research Council of Canada, 2015.  
Global Oceans Science Advisory Council, 2013-present. ([global-oceans.org/](http://global-oceans.org/))  
Steering Committee, XPRIZE Oceans Initiative, 2014.  
Reviewer, North Pacific Research Board, 2013.