

# **Wayne A. Thompson, M.Sci.Ed., B.A. Sc.**

## **SVP Qualified Principal Paleontologist**

### **Curriculum Vitae**

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[DigitalBusinessCard](#)

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[Pacific Paleontology, PaPa, Inc., Capabilities Statement](#)

## **SUMMARY**

- \*Public clients include *David J. Powers & Assoc., Harris & Assoc., Denise Duffy & Assoc.*, and others.
- \**USGS Research Associate [Micropaleontologist](#)*, Gulf of Aden & Alaska projects, Menlo Park, CA.
- \**Cultural Resources Commissioner*, City of Scotts Valley.
- \**Museum Research Associate*, University of California, [Museum of Paleontology](#) Berkeley California.
- \**Paleontological Collections Advisor*, [Santa Cruz Museum](#) of Natural History.
- \**Museum Research Associate*, [Dept. Invertebrate Zoology & Geology](#), CA Academy of Sciences.
- \**Four decades* of experience in Santa Cruz and Monterey County [stratigraphy](#) and [paleontology](#).
- \**Qualified Principal Paleontologist*, as defined by the Society of Vertebrate Paleontology.
- \*Knowledgeable in the use of Federal, State, County, and Local paleontological *regulatory statutes*.
- \*Skilled in Paleontological Initial Identification & Evaluation Reports & *mitigation plans and reports*.
- \*Administration of public *CEQA Mitigation Contracts*, each over 25M within the past two years.
- \**Santa Cruz City Museum Collections*: [acquiring, preparing & cataloging fossils](#).
- \**Knowledge & ability* in [stratigraphic mapping](#) & interpretation of sedimentary sequences.
- \*Skilled in *vertebrate and invertebrate* fossil recognition, extraction, consolidation, and identification.
- \*Experienced in all aspects of paleontological *site monitoring, lab management*, & technical research.
- \*Skilled in [vertebrate](#) and invertebrate fossil [collection, preparation, casting and preservation](#).
- \*Ability to effectively manage *fossil collections*, networking with museums, colleagues, for research.
- \**Ba.Sc. Paleontology, Honors*, U.C. Berkeley.
- \**M.Sci Ed., Science & Public Administration*, San Jose State University.





The regulatory landscape of mitigation paleontology in California has changed significantly in the past 20 years owing largely to federal and state legislative protections for fossils and through mitigation paleontology guidance from the Society of Vertebrate Paleontology. But more advancement is needed. For example, there is a need to have professional paleontologists with an extensive California background on site during emergency construction projects. A qualified professional paleontologist is someone who is published in paleontology, educated and degreed in paleontology, experienced and educated in supervision,

leadership, and public administration, experienced in both field and research, and employed in the paleontological profession.

At Pacific Paleontology we have over 49 years of Monterey Bay Area paleontological expertise working with local and regional clients for protected artifact conservation. We are skilled in CEQA/NEPA/PRPA regulatory report administration and compliance, and seamlessly integrate with your grading plan and construction team on the ground so that minimal, if any, schedule modifications are needed for site work. We are skilled in training for site staff, and have thorough federal, state, county, and city reporting administration so that our clients get the compliance they need quickly, with the best experience possible and the lowest exposure to risk.

Because we are a local company and provide a professional SVP qualified Principal Paleontologist with expert level local scientific knowledge, experience, and skills of the Monterey and San Francisco Bay Areas, we are able to provide clients with services that don't have high mobilization costs compared to larger firms or firms coming in from out of the area. We can also provide our municipal clients with the highest levels of jurisdictional compliance and capacity for report administration completed by Senior Paleontologists rather than geologists or archeologists who often lack the niche experience, training, or both, in paleontology. This adds regulatory capacity to the municipal operations of any project to have professional paleontologists on the team.

## **PROFESSIONAL REGULATORY REFERENCES**

- Mimi McNamara | Project Manager  
[David J. Powers & Associates, Inc.](#)  
1871 The Alameda, Suite 200 | San José, CA 95126  
Main: 408.248.3500 | Direct: 408.454.3430  
[mmcnamara@davidjpowers.com](mailto:mmcnamara@davidjpowers.com)
- Emily Mastrelli, Director of Natural Resources,  
[Harris & Associates](#)  
60 W Alisal St., Suite 200, 2nd Floor Salinas, CA 93901,  
Cell: 1.619.510.5372  
[Emily.Mastrelli@weareharris.com](mailto:Emily.Mastrelli@weareharris.com)

- Désirée Dei Rossi | Project Manager  
[David J. Powers & Associates, Inc.](#)  
[1736 Franklin Street, Suite 400 | Oakland, CA 94612](#)  
Main: 510.902.5850 | Direct: 510.902.5853  
[ddeirossi@davidjpowers.com](mailto:ddeirossi@davidjpowers.com)
- Dana Van Horn, PE, QSD, Senior Construction Engineer  
[Harris & Associates](#)  
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[Dana.VanHorn@weareharris.com](mailto:Dana.VanHorn@weareharris.com)
- Matt Johnson, Senior Project Manager  
[Denise Duffy & Associates, Inc.](#)  
947 Cass St., Suite 5, Monterey, CA 93940  
831-373-4341  
[mjohnson@ddaplanning.com](mailto:mjohnson@ddaplanning.com)
- Mr. John Hopper, Project Manager  
[Cubix Construction](#)  
102 S. Stockton Ave, Ripon, CA 95366  
(209) 992-1371  
[john@cubixllc.com](mailto:john@cubixllc.com)

## **SELECT PROFESSIONAL SCIENTIFIC REFERENCES**

- **Kathleen Aston**, Collections Manager, Santa Cruz Museum of Natural History. Associate for 4 years. 831-420-6115.
- **Christina Garcia**, Geosciences Specimen Collections Curator & Manager, Stanford University. Associate for 4 years. (650) 724-8437
- **Charles Powell**, Emritis Paleontologist, U.S. Geological Survey, Menlo Park, CA, Associate for 34 years. 408-679-1612
- **Austin Hendy**, Collections Manager, Department of Invertebrate Paleontology at the Natural History Museum of Los Angeles County, Associate for 4 years, 310-851-4764
- **Mary McGann**, Research Paleontologist, Pacific Coastal and Marine Science Center, U.S. Geological Survey, Menlo Park, CA, Associate for 34 years. 650-329-4979.

## **Specific Projects Experience**

### **Current Projects:**

#### **1. Surfer's Beach Pilot Restoration Project:**

The Surfer's Beach Pilot Restoration Project will remove 75,000 cubic yards of sand from Pillar Point Harbor and place it at Surfers Beach. Large-scale Eelgrass mitigation, involving dredging/placing 18,000 cubic yards of sediment is required as part of Project permits. This is a "Pilot Project" and, if successful, a larger version could be pursued in the future. The project requires extensive physical and ecological monitoring.



#### **The Role of Pacific Paleontology in the Surfer's Beach Pilot Restoration Project:**

Pacific Paleontology is managing all phases of full paleontological resource assessment and mitigation for the Surfer's Beach Pilot Restoration Project. PaPa completed the Paleontological Resource Assessment, Paleontological Evaluation Report (PER), Paleontological Mitigation Plan (PMP), and once the project has been completed the Paleontological Mitigation Report (PMR), and Paleontological Stewardship Summary (PSS). We also created, delivered, and managed a CEQA-driven Paleontological Worker Environmental Awareness Training Program (WEAP) for project personnel and managed and supervised all paleontological monitoring for the project. The training reviewed applicable laws and regulations and the types of fossils that could potentially be encountered during construction activities and what to do if they were.

#### **Project Manager:**

Brad Damnitz, Project Manager  
Marine and Coastal Conservation  
415-259-5766  
[brad.damitz@me.com](mailto:brad.damitz@me.com)

**Lead Agency:** San Mateo County Harbor District

**Funding source:** Public

**Date of contract:** May, 2025

**Date of completion:** *Current*

## **2. City of Hayward, Eden Landing Business Park STACK Data Center Redevelopment Project:**

STACK Infrastructure is proposing to develop this Data Center Campus to include a three-story data center building, a one-story data center building, backup generators to support both data centers, a security building, an on-site project substation, and a Pacific Gas and Electric Company switching station. The backup generators would have a total generation capacity of up to 76.6 megawatts (MW). A total of 28 emergency generators would be arranged in two generation yards, with 26 2.75 MW generators and a single 1 MW generator serving the larger data center building, and a single 1.6 MW generator serving the smaller data center building. Included in the total number of generators are redundant generators to ensure the maximum electricity needs (76.6 MW) of the campus would be maintained in a disruption of utility power.

### **The Role of Pacific Paleontology in the Eden Landing STACK Data Center Project:**

Pacific Paleontology, PaPa, created, and delivered CEQA-driven Paleontological Worker Environmental Awareness Training Program (WEAP) for project personnel. The training reviewed applicable laws and regulations and the types of fossils that could potentially be encountered during construction activities. Pacific Paleontology is managing and supervising all on-call paleontological monitoring for the project

### **Project Manager:**

Désirée Dei Rossi | Project Manager

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Main: 510.902.5850 | Direct: 510.902.5853

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<https://davidjpowers.com/>

**Lead Agency:** California Energy Commission

**Funding source:** Public

**Date of contract:** 2025

**Date of completion:** *Current*

## **3. Rancho Canada Floodplain Restoration Project; Monterey Regional Park District**

Monterey Peninsula Regional Park District in collaboration with numerous federal, state, and local government agencies and nonprofits is working to restore and enhance floodplain connectivity and channel processes of the Carmel River at the Rancho Cañada unit of Palo Corona Regional Park, the site of the former 36-hole Rancho Cañada golf course. In 2018, a consortium of conservation partners including the Trust for Public Land, Santa Lucia Conservancy, Trout Unlimited, the California Coastal Conservancy, and the Monterey Peninsula Regional Park District acquired the property for conservation and recreational purposes. The Rancho Cañada Floodplain Restoration Project will be the first major restoration effort at the park, where a one-mile section of the Carmel River will be restored so that natural processes will reconnect the river with historic floodplain habitat and create a mosaic of self-sustaining riparian habitat types and instream complexity.



**Role of Pacific Paleontology in the Rancho Canada Project:**

We will be creating a CEQA-driven Paleontological Worker Environmental Awareness Program Training, and provide on-call Paleontological Monitoring for this project. Pacific Paleontology is managing and supervising all on-call paleontological monitoring for the project.

**Project Manager:** Matt Johnson, Senior Project Manager

[Denise Duffy & Associates](#)

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**Lead Agency:** MPRPD: Monterey Peninsula Regional Park District

**Funding source:** Public

**Date of contract:** May, 2025

**Date of completion:** *Current*

**4. [MST SURF! Rapid Transit Project](#); Transportation Agency for Monterey County**

The Highway 1 Busway Project, recently rebranded as *SURF!* Busway and Bus Rapid Transit project, is part of a larger effort to reduce regional congestion along Highway 1 and enhance transit connections within the Monterey Peninsula. The *SURF!* project is a proposed bus-only corridor in the Monterey Branch Line right-of-way, from Marina through Sand City and Seaside. The total length of the project is approximately 6 miles. Segments 1 and 2 of the *SURF!* project propose a smooth connection between the Marina Transit Exchange and the Sand City Transit Center, paralleling Highway 1 within the Monterey Branch Line's TAMC-owned right-of-way. Segment 3 – the final leg of alignment – would lead the bus through the California Avenue Interchange through to Contra Costa Avenue.

**Role of Pacific Paleontology in the SURF! Project:**

PaPa created a CEQA-driven Paleontological Monitoring and Mitigation Plan (PMP), Worker Environmental Awareness Program Training (WEAP), is supervising and managing the Project Paleontological Monitoring, has managed fossil resources discovered and curated, and will complete the archival artifact management and final Paleontological Mitigation Report (PMR) under this discovery scenario.

**Project Manager:**

Emily Mastrelli, Director of Natural Resources,

[Harris & Associates](#)

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**Lead Agency:** TAMC; Transportation Agency for Monterey County

**Funding source:** Public

**Date of contract:** May, 2025

**Date of completion:** *Current*

### **5. City of Half Moon Bay, SAM Montara Force Main Project,**

Protecting public health and the environment is core to Sewer Authority Mid-Coastside's (SAM) mission. SAM's core facilities – the Intertie Pipeline System (IPS) and the SAM Wastewater Treatment Plant in Half Moon Bay – treat all sewage from homes and businesses from Montara to Half Moon Bay. SAM is working to upgrade portions of the SAM Intertie Pipeline System (IPS) which collects and transports sewage from Montara, Granada and north Half Moon Bay to the treatment plant. The IPS – including almost 2 miles (13,395 feet) of original ductile iron pipeline as part of SAM's Force Main in Montara\* – has been in continuous service for more than 40 years and has approached the end of its useful life.

#### **The Role of Pacific Paleontology in the Montara Force Main Project:**

Pacific Paleontology has been contracted with EMC Planning, Inc. and completed the Initial Scoping Windshield Study and the initial Paleontological Identification Report. This is an early stage project and further studies will be needed before groundwork can begin.

#### **Project Manager:**

Janet Walther, M.S., Principal Biologist

[EMC Planning Group](#)

601 Abrego Street, Monterey, CA 93940

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**Lead Agency:** City of Half Moon Bay

**Funding source:** Public

**Date of contract:** May, 2025

**Date of completion:** *Current*

### **6. Monterey High School Stadium Project; Monterey Peninsula Unified School District**

The Monterey Peninsula Unified School District proposes to implement several improvements to the athletic facilities at Monterey High School. Improvements to the lower field include construction of a softball/multi-use field, a new weight room/team room, and a score board. Improvements to the Dan Albert Stadium include four permanent light standards, press box, and aluminum bleachers for visiting team fans.

### **Role of Pacific Paleontology in the Monterey High School Stadium Improvement Project:**

Pacific Paleontology's role in this project was for a CEQA-driven Worker Environmental Awareness Program Training (WEAP), supervising and managing all Project Paleontological Monitoring, and the summary Paleontological Mitigation Report (PMR) after discovery of a vertebrate fossil onsite. We were responsible for specimen recovery, preparation, casting, and donation of the cast and specimen.

### **Project Manager:**

Matt Johnson, Senior Project Manager

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**Lead Agency:** Monterey Peninsula Unified School District

**Funding source:** Public

**Date of contract:** 2024

**Date of completion:** *Current*

## **Completed Projects:**

### **7. [City of San Jose Alviso Microsoft Data Center](#); California Energy Commission**

Microsoft proposes to construct and operate a 396,914 square foot data center, located at 1657 Alviso-Milpitas Road in San Jose, California near an existing power plant and wastewater treatment facility. The project would consist of two single-story data center buildings. To provide reliable operation of the project in the event of loss of electrical service from the local electric utility provider, Pacific Gas and Electric Company (PG&E), the project includes 224 renewable natural gas (natural gas) generators each rated at 0.45 MW output capacity to provide electrical power, certain onsite electrical equipment interruptions or failure, and for load shedding, demand response and behind-the-meter resource adequacy ancillary services.

### **Role of Pacific Paleontology in the Alviso Microsoft Data Center Project:**

Pacific Paleontology created, delivered, and managed a CEQA-driven Paleontological Worker Environmental Awareness Training Program (WEAP) for project personnel. The training reviewed applicable laws and regulations and the types of fossils that could potentially be encountered during construction activities. Pacific Paleontology is managing and supervising all on-call paleontological monitoring for the project.

### **Project Manager:**

Mimi McNamara | Project Manager

[David J. Powers & Associates, Inc.](#)

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**Lead Agency:** California Energy Commission

**Funding source:** Private

**Date of contract:** 2025

**Date of completion:** June 11th, 2025

## **8. Fortune Drive/Trade Zone Blvd Data Center; California Energy Commission**

STACK Infrastructure (STACK) is developing the Trade Zone Boulevard Technology Park which includes an Advanced Manufacturing Building (AMB), the SVY Data Center (SVYDC), a parking garage, and related utility infrastructure. Trade Zone Park is located on two parcels of land at the corner of Trade Zone Boulevard and Ringwood Avenue in San Jose, California. The SVY Backup Generating Facility (SVYBGF) would be an emergency backup generating facility with a generation capacity of up to 91 megawatts (MW) to support the need for the SVYDC to provide uninterruptible power supply for its tenant's servers. The SVYBGF would consist of thirty-six (36) 3-MW and (3) 1-MW diesel-fired backup generators arranged in two generation yards, each designed to serve one of the two data center buildings (SVYDC 05 and SVYDC 06) that make up the SVYDC.

### **Role of Pacific Paleontology in the Fortune Drive/Trade Zone Blvd. Data Center Project:**

Pacific Paleontology, PaPa, created, delivered, and managed a CEQA-driven Paleontological Worker Environmental Awareness Training Program (WEAP) for project personnel. The training reviewed applicable laws and regulations and the types of fossils that could potentially be encountered during construction activities.

### **Project Manager:**

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**Lead Agency:** California Energy Commission

**Funding source:** Public

**Date of contract:** 2023

**Date of completion:** 2024

## **9. Imjin Parkway Improvement Project, Public Works Department, City of Marina**

The City of Marina (City), in cooperation with the California Department of Transportation District 5 (Caltrans), proposes to provide improvements to Imjin Parkway from Reservation Road west to Imjin Road. The Imjin Parkway Improvement Project (Project) would improve traffic operations and would improve pedestrian and bicycle access and safety. The City is the lead agency under the California Environmental Quality Act (CEQA). Caltrans is the lead agency under the National Environmental Policy Act (NEPA), as assigned by the Federal Highway Administration (FHWA) through NEPA Delegation.

**Role of Pacific Paleontology in the Imjin Parkway Improvement Project:**

Pacific Paleontology managed all phases of full paleontological resource assessment and mitigation for the Carmel Valley Manor Sewer Extension Project. PaPa completed the Paleontological Resource Assessment, Paleontological Identification Report (PIR), Paleontological Evaluation Report (PER), Paleontological Mitigation Plan (PMP), Paleontological Mitigation Report (PMR), and Paleontological Stewardship Summary (PSS). We also created, delivered, and managed a CEQA-driven Paleontological Worker Environmental Awareness Training Program (WEAP) for project personnel. A pre-grubbing boots survey was also completed for best practice management for this exceptionally-managed project by Harris & Associates. The training reviewed applicable laws and regulations and the types of fossils that could potentially be encountered during construction activities. Pacific Paleontology managed and supervised all paleontological monitoring for the project under a no-discovery scenario.

**Project Manager:**

Dana Van Horn, PE, QSD, Senior Construction Engineer

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**Lead Agency:** California Energy Commission

**Funding source:** Public

**Date of contract:** 2023

**Date of completion:** 2025

**10. Carmel Valley Manor Sewer Extension Project; Carmel Area Water District**

The Carmel Valley Manor Sewer Main Extension Project, managed by lead agency Carmel Area Water District (CAWD) will extend sewer service to the existing Carmel Valley Manor senior living facility. This development is currently served by a failing septic system that is considered to be a health concern by the Monterey County Environmental Health Department. The project includes the installation and operation of approximately 9,900 linear feet (LF) of 8-inch diameter polyvinyl chloride (PVC) gravity sewer main, approximately 900 LF of 6-inch diameter force main, concrete manholes, and a 250 gallon per minute wastewater pump station.

**Role of Pacific Paleontology in the Carmel Valley Manor Sewer Extension Project:**

Pacific Paleontology managed all phases of full paleontological resource assessment and mitigation for the Carmel Valley Manor Sewer Extension Project. PaPa completed the Paleontological Resource Assessment, Paleontological Identification Report (PIR), Paleontological Evaluation Report (PER), Paleontological Mitigation Plan (PMP), Paleontological Mitigation Report (PMR), and Paleontological Stewardship Summary (PSS). We also created, delivered, and managed a CEQA-driven Paleontological Worker Environmental Awareness Training Program (WEAP) for project personnel. The training reviewed applicable laws and regulations and the types of fossils that could potentially be encountered during construction activities.

**Project Manager:**

Matt Johnson, Senior Project Manager  
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**Lead Agency:** Carmel Area Water District

**Funding source:** Public

**Date of contract:** 2022 **Date of completion:** 2024

**11. Crocker's Lockers Project, City of Watsonville, Community Development Dept.**

This project involved the construction of 1,072 self-storage units and one two-story manager's office with an apartment above on a 4.4± acre site located at 70 Nielson Street. Overall development included installing new landscaping, fencing, stormwater facilities, trash enclosures, and signage. The project includes new onsite circulation consisting of drive aisles ranging in width from 25'-0" to 32'-0" and 22 parking stalls (located mainly along the drive aisles). The applicant requested the establishment of a Planned Development (PD) Overlay District to allow for parking stall reductions and a Special Use Permit to allow a mini-warehouse facility within the existing Industrial Park (IP) Zoning District. A Design Review Permit and Specific Development Plan were also required for the project.

**Role of Pacific Paleontology in the Crocker's Lockers Project:**

Pacific Paleontology created, delivered, and managed a CEQA-driven Paleontological Worker Environmental Awareness Training Program (WEAP) for project personnel. The training reviewed applicable laws and regulations and the types of fossils that could potentially be encountered during construction activities.

**Project Manager:**

Mr. John Hopper, Project Manager  
[Cubix Construction](#)  
102 S. Stockton Ave, Ripon, CA 95366  
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[john@cubixllc.com](mailto:john@cubixllc.com)  
<https://www.cubixconstructionllc.com/>

**Lead Agency:** City of Watsonville, Community Development Department

**Funding source:** Private

**Date of contract:** 2023

**Date of completion:** 2023

## **12. Scotts Valley Hochler Subdivision**

The project manager, Rick Hochler Construction, proposes a three-unit subdivision at the project site off Scotts Valley Drive in Scotts Valley, CA. The site sits on a sloped hill northwest of Scotts Valley Drive at Chef Liu Chinese Restaurant, with existing vegetation, trees, and a single residence. According to the owner-developer Mr. Rick Hochler (pers. comm. 2022-09-23), there will be one day of grading work that encroaches down into the Santa Margarita Formation to about seven feet below current grade. Paleontological equipment staging during project grading may potentially occur in the southeast corner of the subdivision where grading will have already occurred the day prior. For relevant data see the Cooperation and Assistance Contract provided to the grading contractor, Principal Engineer, and Project Manager for fossil removal outlining conditions under which assistance to the Principal Paleontologist may be needed in order to satisfy City of Scotts Valley COA #15, #23.

### **Role of Pacific Paleontology in the Hochler Subdivision Project:**

Pacific Paleontology managed all phases of full paleontological resource assessment and mitigation for the Hochler Subdivision Project. PaPa completed the Paleontological Resource Assessment, Paleontological Identification Report (PIR), Paleontological Evaluation Report (PER), Paleontological Mitigation Plan (PMP), Paleontological Mitigation Report (PMR), and Paleontological Stewardship Summary (PSS).

### **Project Manager:**

Rick Hochler | Project Manager  
Hochler Construction  
325 Canham Rd., Scotts Valley, CA 95066  
(831)-818-0919  
[hochwave@comcast.net](mailto:hochwave@comcast.net)  
[Website](#)

**Lead Agency:** The City of Scotts Valley

**Funding source:** Private

**Date of contract:** 2022

**Date of completion:** 2023

**A Review of Modern and Fossil *Sulcosipho* (Mollusca, Gastropoda, Buccinidae) from California and the Pacific Northwest. In progress with Charles L. Powell.**

## **Scientific Research Publications, Manuscripts, Projects, Grants**

- ✓ [New molluscan species from the Pliocene portion of the Purisima Formation exposed along northern Monterey Bay, Santa Cruz County, central California.](#)
- ✓ The *N. lamellosa* (Gmelin, 1791) species-complex in the Neogene of California: *N. demouthae*, *N. ethegoensis*, *N. lamellosa*, and *N. shumanensis* In press to Novapex with Charles L. Powell.
- ✓ Rediscovery of the Brittle Star *Amphiura sanctaecrucis* (Echinodermata: Ophiuroidea) from the late Miocene Santa Cruz Mudstone and associated fauna including description of a new species of *Siliqua* (Mollusca: Bivalvia: Pharidae), Santa Cruz Mountains, California
- ✓ A New Extinct Muricidae genus from the Miocene to Pleistocene of the western United States: *Magnaenucella* n. gen. In process with Charles L. Powell.

- ✓ A Review of Modern and Fossil *Sulcosipho* (Mollusca, Gastropoda, Buccinidae) from California and the Pacific Northwest. In progress with Charles L. Powell. In process with Charles L. Powell.
- ✓ [Invertebrate Taphofacies Sequence Stratigraphy of the Northern Monterey Bay Purisima Formation](#), publication in process.
- ✓ [Biostratigraphy of the Purisima Formation \(Miocene-Pliocene\), Along Monterey Bay, Central California](#), publication in process with Charles L. Powell, II, Austin Hendy, & Frank Perry



- ✓ [Mastodon \(\*Mammut americanum\*\)](#)

[Populations of California, with New Records from Santa Cruz County](#), Santa Cruz City Museum of Natural History, UCMP Paleobios publication in process

✓ New Mollusca Species from the Pliocene part of the Purisima Formation exposed along northern Monterey Bay, central California, The Nautilus, publication in process with Charles Powell

- ✓ [An Unusual Molluscan faunule from the Upper Part of the Monterey Formation \(middle to](#)

[late Miocene\) in Arroyo Seco, Monterey County, Central California](#), coauthored with Charles L. Powell, Emeritus, USGS.

- ✓ **3D Photogrammetric rendering** of stratigraphy and rockfall data in the Purisima Formation., Capitola.
- ✓ With Lisa White, [The Use of Virtual Field Experiences in the Purisima Formation of Coastal California for Scientific Study, Public Outreach, and K-12 Education](#), 25 September, 2019
- ✓ **Bringing Caminalcule Evolution into the 21st Century: 3D STEAM-ifying a Classic Evolutionary Pattern Modeling Lab** with the [iDigFossils](#) UFL team and ms students, project funding by NSF.
- ✓ [Foraminiferal Biostratigraphy of the Pliocene Purisima Formation](#); Implications for Age and Depth Analyses of Sediments from northern Monterey Bay, Santa County, publication in process.
- ✓ [Virtual Field Trip to the Pliocene Purisima Formation](#), Capitola, CA, Reviewer & Collaborator, EPICC-UCMP; University of California Museum of Paleontology, Virtual Field Experience; Lisa White, Coordinator, engaging students through basic field digital data collection, work in process.
- ✓ **Vertebrates of the Santa Margarita Formation**, Miocene, Scotts Valley CA, [Santa Cruz City Museum of Natural History](#), publication in process.
- ✓ [The Hyoid and Associated Skeleton of an Unnamed late Pliocene Odontocete](#) from the Purisima Formation of Santa Cruz County, CA, [University of California at Berkeley, Dept of Paleontology](#), publication in process.
- ✓ [Shell Morphology Ecoclines of \*Anadara trilineata\* \(Bivalvia, Arcidae\) from Capitola and Its Significance in Paleoecology](#), [University of California at Berkeley, Department of Paleontology](#).
- ✓ **Sharktooth Hill Bonebed**, Excavations in a Pliocene vertebrate fauna from Bakersfield, CA, [Los Angeles County Museum of Natural History, Department of Paleontology](#).
- ✓ **Dinosaurs from the Hell Creek Formation**, eastern Montana, [U.C. Berkeley, Department of Paleontology](#). Summer field work with Bill Clemens. Discovered *Triceratops* skull, now in UCMP Library exhibit.
- ✓ **Summer Field work Searching for Supersaurus**, Dry Mesa Colorado, University of Utah, Provo, [Department of Vertebrate Paleontology](#). Summer field work.





## **SKILL AREAS:**

### **Leadership**

- \*Effective in creating new **opportunities**, motivating, public speaking, and mentoring.
- \*Encourage alignment with the organization's **mission statement** at all levels.
- \*Skilled in **defining goals** and developing a vision of unity and shared values.
- \*Successfully organize and execute around **balanced priorities** with integrity.



### **Management**

- \*Broad range of **human resources management experiences**, confident and straightforward.
- \*Effective time management, concentrating on **priorities** and setting realistic goals.
- \*Able to skillfully manage around **deadline** and heavy workload situations.

Purisima Fm. vertebrates; <https://youtu.be/cta1NNJLaR0>

### **Fossil Recovery, Site Monitoring, Acquisition, Preparation, Curation, Archiving, & Stewardship**

- \*Sensitive to **regulatory laws** concerning fossil collecting, especially vertebrates.
- \*Comfortable and experienced working around heavy **earth moving equipment**.
- \*Skilled and experienced in [field mapping specimens](#), digital and handwritten **field notes**.
- \*[Section mapping and interpretation](#) experience allows accurate stratigraphic interpretations.
- \*[Specimen extraction](#) experience from molluscs to dinosaurs, from DSDP forams to whales.
- \*Knowledge and ability in post-fieldwork **specimen preparation techniques**, including [casting](#).
- \***Five decades** of experience in museum and USGS curation of specimens.

### **Federal, State, County, and City Paleontological Regulatory Ordinances and Statutes.**

- \*Familiarity with Title 54 Code of Federal Regulations and Proposed CFR Title 49 mandates.
- \*Understanding of PRPA (2009), FLPMA (1976), NEPA (1969), NHPA (1966), FHA (1935), and the Antiquities Act of 1906.
- \*Knowledgeable about CEQA, the California Coastal Act of 1976, and the CPRC in general.
- \*Familiarity with the Santa Cruz County Sustainability Plan, EIR Report, and the City of Santa Cruz Public Resources Code §5097.5



governing paleontological resource mitigation.



## **Reporting Protocols: Identification Reports, Evaluation Reports, Mitigation Plans and Reports.**

- \*Familiarity with Regulatory Setting, Preliminary Identification, and Evaluation.
- \*Knowledgeable in Mitigation Plans and Reports.
- \*Focus on Stewardship Summaries, Educational Service, Museum Acquisition and Networking.

## **Familiarity with Relevant Literature**

- \*Murphey, Paul, et. al. 2019. A Foundation for Best Practices in Mitigation Paleontology. Proceedings of the San Diego Soc. Nat. Hist. 47(1); p.p. 1-43.
- \*Murphey, Paul, et. al. 2014. A Foundation for Best Practices in Mitigation Paleontology. Research Gate Pub.
- \*PG&E, 2014, "Paleontological Resources Standards and Procedures" by Pacific Gas and Electric Company, 3401 Crow Canyon Road, San Ramon, CA 94583
- \*Society of Vertebrate Paleontology (SVP), 1995, Assessment and mitigation of adverse impacts to nonrenewable paleontological resources -- standard guidelines: Society of Vertebrate Paleontology News Bulletin, no. 163, p. 22-27.

## **Analytical Thinking, Complex Problem-Solving, Communication, Facilitation, and Teaching Ability**

- \*Ability to accommodate **multiple skill levels** and promote commitment through involvement.
- \*Enable others to define **personal goals** and develop a vision of shared values.
- \*Promote a paradigm of **integrity** based on a sense of quality and commitment.
- \*I utilize a variety of **teaching styles** such as inquiry, PBL, cooperative learning, and discovery.

## **EDUCATION**

**B.A.Sc. Paleontology (Honors)**, U.C. Berkeley, Dept. of Paleontology --(09/82-06/84)  
**M.Ed. Leadership and Administration**, San Jose State University—(08-2009)  
**B.S. Biology (equiv.)**, U. C. Santa Cruz--(09/88-06/89)  
**A.S. General Science**, Cabrillo Community College, Aptos--(09/79-06/82)

## **EMPLOYMENT**

**Principal Paleontologist, Owner & CEO** (2022/03/01-present)  
**Pacific Paleontology, Inc.**, Santa Cruz and Monterey, CA (831-535-8545)  
**Laboratory Research Associate** (12/1984-08/1988); 4 years  
**Department of the Interior, United States Geological Survey**, 345  
Middlefield Rd., Menlo Park, CA (415-329-4972), Dr. Kristin McDougall, Lead.



**Museum Associate** (6/1978-8/1982); 4 years  
**Santa Cruz City Museum of Natural History**, 1305 East Cliff Dr, Santa Cruz, CA  
(831-420-6115), Frank Perry, Co-worker;  
Charles Prentiss, Curator

**Science Teacher** (10/1996-4/2004); 8 years  
**Fortuna Union High School**, 379  
12th St. Fortuna, CA  
(707-725-4461) Mr. Marty  
Mathiesen, Principal

**Science Teacher and Department Chair** (08/2008-2/2022); 14 years  
**C.T. English Middle School**, 23800 Summit Rd., Los Gatos, CA  
(408-353-1123) Ms. Lisa Fraser, Superintendent

## **ADJUNCT POSITIONS**

### **Paleontological Collections Advisor, Current**

**Santa Cruz Museum of Natural History**, Santa Cruz, CA

In charge of digitization of collections into national database and assisting the public with identifying fossils

### **Research Associate, University of California Museum of Paleontology (UCMP), Current**

**University of California**, Berkeley, CA

Research on the vertebrate paleontology of Santa Cruz & San Mateo Counties

### **Research Associate, California Academy of Sciences, Current**

San Francisco, CA

Research into the invertebrate paleontology of Santa Cruz & San Mateo Counties

### **Vice Chair, Sanctuary Education Panel**, (8/2011-9/2012)

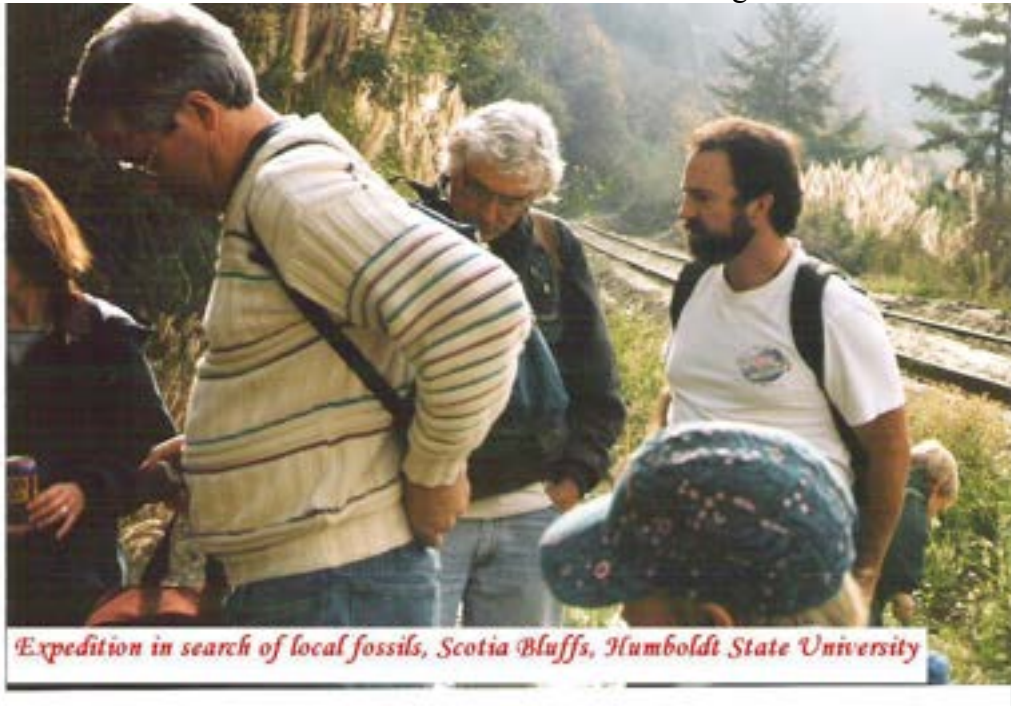
**Monterey Bay National Marine Sanctuary**,

Simona Bartle, Chair, sbartl@mlml.calstate.edu

### **iDigFossils Presenter** (July, 2017)

**Santa Cruz County Office of Education**, Santa Cruz

Presented lesson on NGSS Modeling of Evolution and Field Trip to Capitola Beach, CA



### **iDigFossils Teacher Leader**

(May, 2018-present)

Univ. of Florida,  
School of Teaching and  
Learning, Pavlo Antoneko,  
Principal

Investigator, P.O. Box  
117048, Gainesville, FL,  
(352) 273-4176

# Wayne Thompson: Paleontologist

September 8, 2019



<https://www.santacruzmuseum.org/wayne-thompson-paleontologist/>.

## Memberships and Professional Associations, Past & Present

- ✓ Society of Vertebrate Paleontology
- ✓ Society for Materials & Methods in Paleontology
- ✓ California Association of Environmental Professionals, Monterey Bay Chapter
- ✓ U.C. Santa Cruz Alumni Association
- ✓ U.C. Berkeley Alumni Association
- ✓ Museum Research Associate, UCMP (University of California Museum of Paleontology)
- ✓ Research Associate, CAS (California Academy of Sciences)
- ✓ Member, Soc. for the Study of Evolution
- ✓ Member, PS-SEPM





Paleontologist Wayne Thompson | Photos by Gabriela Hasbun

## **Field-Tripping Adults Chase Megalodon in Monterey Bay**

How I traveled through time during the pandemic

<https://contentdev.sierraclub.org/sierra/2021-2-summer/field-trip/field-tripping-adults-chase-megalodon-monterey-bay>



[Wayne Thompson, Research Gate](#)

**DIGITAL BUSINESS CARD**

EDUCATION \* RESOURCES COORDINATION \* CONSERVATION



# FOSSIL TALK

NORTHERN CALIFORNIA  
PALEONTOLOGICAL SOCIETY

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Vol. 1 \* No. 2 February 1993

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## **We Must be Doing Something Right!**

The last meeting of the Northern California Paleo Society had close to 40 in attendance for a record turnout in January! Dr. Doris Niles delivered a slide show on Humboldt County fossils and Wayne Thompson spoke on some of the sites we know of which preserve entire faunas.

We also established several new committees which will be responsible for the inner workings of the society:

### **Newsletter Committee**

all the support we've shown to-date with a field trip or potlach in March--give us your suggestions at the February 23 meeting.

**Please send in your dues contribution now to ensure that our group continues to meet and that your name remains on the newsletter mailing list.**

We're also in need of

without a strong newsletter to get information to our members the group will be much less effective. So, please tuck some cash away for the meeting at the end of the month or mail your subscription in now. There is a membership application included in this newsletter mailing.

We also spoke about the idea of having a joint meeting between NCPS (thats us) and the Sierra Club as well as the Redwood Camera Club. The general consensus at



# The Lost World

## A Childhood of Adventure

from *"The T. rex & the Apple Orchard"* by Wayne Thompson



### STORYBOOK LAND

One part of Dinosaur Land was the fanciful "Storybook Land" in which dinosaurs and other extinct creatures came to life to form a musical ragtime band, a city jail complete with jailed cave men and dinosaur guards, and

other magical scenarios.

Storybook Land was for three young kids the gateway to Carbonero Creek a once-wild and untouched area of Scotts Valley where rich deposits of turtles and arrowheads could be found.

### THE ENCHANTED FOREST

The Enchanted Forest, also known as the Tree Circus and Mystery Forest, was the creation of Axel Erlandson, a farmer from Turlock, CA, whom my father Larry met in the late 1950's. I spent half my childhood growing up in the Enchanted Forest. They struck up a friendship and when Axel could no longer care for his



incredible creations my father purchased the Circus and built the Lost World around them so that passers-by on Hwy 17 would see the large dinosaurs and be attracted to the Forest. These 70 incredible trees were each a unique friend to a young and impressionable boy who grew up in the forest.

### Dinosaur Land

This area of the Lost World Amusement Park was where I spent the first 18 years of my life as a young boy. Growing up in a somewhat "real life" Jurassic Park provided countless hours of wonder and a myriad of whimsical stories. I remember when the motors inside the animatronic Triceratops would break down my brother and I would jump for joy because it meant we could climb inside the belly of the huge beast to rock the giant I-beams supporting the head and growl in our best dinosaur voice for the customers strolling through the park.

Wayne Thompson





## GREETING THE PUBLIC AS THEY ENTERED THE LOST WORLD



**Favorite Friend;** *A cave boy.*

**Best conversation as a kid;** *My animatronic tree; with my mom on the other end at the microphone greeting customers.*

The Castle at the Lost World is where I grew up. There was a gift shop in front and our quarters to the rear. I remember best spending summer nights in the park. The entrance to the park via our animatronic tree; it would bat its eyelashes, move its "limbs" and we would talk to customers through the microphone. The Triceratops with the goldfish pond below it was my favorite reading spot after school. It was a signature attraction and I remember it arriving on the long tractor trailer one day when I was less than five. Dino the baby "brontosaurus" was a favorite of children for photographs. My mother's belt from one of her

resses formed the leash harness. This tree still stands today at the front of Gene Bustichi's Tree Circus Center on Scotts Valley Drive



The Lost World was filled with magic and wonder for the children who grew up in the Enchanted Forest, Storybook Land, and Dinosaur Land.

## ANATOMY OF THE ENTRANCE

This is the castle where I lived growing up.

Entrance to the park via our animatronic tree.

I remember playing on these huge redwood rounds as a boy.



This tree still stands today.

The Triceratops with the goldfish pond below it was my favorite reading spot after school.

Dino the baby "brontosaurus"



## A WORLD OF WONDER

Little did I know it at the time but in a very fundamental way my experience with dinosaurs, sunday school, and the sense of place I was immersed in while my mother ran the park would sculpt my dichotomous world-view for years to come and allowed me a perspective of life that would be difficult to duplicate today; all childhoods are unique.



*My brother, Don (L) and I (R) with our Caveman Friend, at our Lost World Amusement Park, Summer, 1966*