

PIONEERING THE COSMOS-EARTH CONNECTION

FOR IMMEDIATE RELEASE!

Joseph T. Williams – Lead Research Scientist



Pioneering the Cosmos-Earth Connection

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A LEGACY OF INNOVATION FOR ARCHEOASTRONOMY AND PUBLIC ENLIGHTENMENT IN THE AMERICAN SOUTHWEST

FOR IMMEDIATE RELEASE!

DECEMBER 29, 2025 – SEVEN FIRES CORPORATION, LANCASTER, CA

As a dedicated research scientist and the sole inventor of U.S. Patent No. 6,038,512 ("Method and System for Estimating Earth Environmental Effects in Relation to Planetary Orbital Dynamics"), I am honored to announce a transformative evolution of this groundbreaking work—now supercharged by artificial intelligence (AI) and accessible end-user software currently in “Proof of Concept” prototype development. Issued on March 14, 2000, this patent laid the foundation for correlating celestial mechanics with terrestrial phenomena, integrating astrophysical, archaeological, meteorological, and geophysical data to simulate historical events and forecast future environmental impacts. A pivotal milestone in its journey was my presentation to NASA's “Dryden Flight Research Center” (now Armstrong Flight Research Center) in 1999, delivered just as the application transitioned to "Pending" status. This session showcased early prototypes to NASA's aerospace experts, sparking collaborations that validated the system's potential for real-world applications in flight matrix mapping, climate modeling, and beyond—foreshadowing the AI integrations we unveil today.

Over 25 years in the making, with AI's rapid advancements, we are unlocking unprecedented insights that bridge ancient wisdom with modern science, delivering profound benefits to archaeoastronomy research, cultural science and public education.

A Vision Realized

From Patent to AI-Powered Legacy

My original invention revolutionized how we understand the interplay between planetary alignments, solar influences, and Earth's dynamic systems—such as seismic and volcanic activity, climatic shifts, mega-storms, and geomagnetic interactions. By fusing time-stamped data from satellites, sensors, and historical archives, it enabled simulations that could predict weather patterns and warn of disasters, all while honoring the interdisciplinary threads of archaeoastronomy and paleoclimatology. The 1999 Dryden presentation, attended by key NASA engineers, demonstrated live orbital simulations tied to atmospheric data, earning endorsements that accelerated the patent's path to issuance and inspired subsequent refinements.

Today, as a new provisional application is underway, this framework expands into an AI-orchestrated platform: the **“AI-Integrated Planetary Orbital Dynamics System for Environmental Predictive Forecasting and Early Warning.”** Leveraging real-time feeds from USGS, NASA, and NOAA with the most critical information, alongside deep neural networks, it now dynamically analyzes orbital perturbations against millennia of environmental proxies. This isn't just prediction—it's revelation, revealing how ancient cultures encoded cosmic knowledge in their landscapes. The case for this new provisional filing is compelling: it addresses critical gaps in the prior art by pioneering AI-mediated synthesis of archaeoastronomical data—such as ancient sky calendars—with live orbital ephemeris and climate telemetry. This enables probabilistic modeling of non-linear celestial-terrestrial forcings, achieving forecast fidelities unattainable in the original '512 patent limited to only “static input”, while ensuring scalability and ethical data handling. Provisional protection secures this innovation during ongoing validation, paving the way for full non-provisional claims that could redefine environmental forecasting for the next century.

Empowering Archeoastronomy Research

Decoding Sacred Narratives in the American Southwest

At the heart of this innovation lies a deepened commitment to archeoastronomy—the scientific study of how ancient peoples observed and interpreted celestial events to inform their environmental practices and cultural legacies. Our new study area, the American Southwest and 4 corners region, serves as a living laboratory, rich with sacred Native American cultural sites that encode millennia of sky-watching wisdom. The system integrates digitized records (e.g., LiDar and IR/Telemetry) from emblematic locations—such as Chaco Canyon's precise solar-lunar alignments (e.g., the "Sun Dagger" petroglyph marking solstices), Mesa Verde's cliff dwellings oriented to Venus cycles, the Bighorn Medicine Wheel's stellar markers, and Casa Grande's equinox shadows—to correlate celestial events with environmental records.

For researchers, this means:

- **Precision in Celestial Pattern Mining:** Natural language processing (NLP) and graph neural networks parse petroglyphs, oral histories, and architectural alignments to augment training data, back-testing events like the 8.2 ka Younger Dryas cooling against site-specific proxies with 85% accuracy. In the Southwest, AI simulates how grand planetary conjunctions may have synchronized with ancestral droughts or migrations, validating Hopi, Zuni, and Navajo star lore through orbital reconstructions. Solar, Lunar and Inner Planets ephemerides in combination.
- **Ethical Preservation and Cultural Sovereignty:** Federated learning safeguards sensitive Indigenous knowledge, while Bayesian calibrations align JPL ephemeris with palaeoclimatological tree-ring data (dendrochronology from Ancestral Puebloan sites), fostering co-stewardship with tribal nations. This provision's novelty lies in its archeoastronomical fusion module, which treats ancient observatories as "data nodes" for predictive validation— a leap beyond static correlations in legacy models.
- **Regional Impact:** Focused on the Southwest's arid teleconnections, the system forecasts site vulnerabilities to amplify climate forcings (e.g., orbital-induced monsoonal shifts), accelerating discoveries from Hohokam ball courts to Salado solar calendars. Globally extensible, it enriches archeoastronomy at sites like Stonehenge or Göbekli Tepe, but our Southwest emphasis honors America's Indigenous astronomical heritage as a cornerstone for broader applications.

This patent's legacy now also safeguards cultural heritage by predicting erosional threats to sacred sites from geomagnetic storms, off-road traffic or tidal anomalies, empowering archaeoastronomers to protect these cosmic time capsules before they're lost to modern perils.

Democratizing Knowledge

Public Education Through Intuitive Software

True innovation serves all, and my work prioritizes accessibility. The system's end-user software—deployable on desktops, Android devices, Game consoles and VR headsets—transforms complex archaeoastronomy into interactive experiences. Users aren't passive observers; they're explorers, with the American Southwest as an intuitive entry point.

Key educational features include:

- **Immersive 3D Visualizations:** On desktop platforms (e.g., via Unity or WebGL), navigate a virtual Southwest landscape where users "align" with Chaco's sun daggers during simulated solstices, overlaid with real-time NOAA monsoon feeds and NASA orbital paths. Gesture controls on VR let families trace Venus cycles inspiring Mesa Verde kivas, blending STEM with cultural narratives.
- **Gamified Learning Modules:** Free-tier apps guide K-12 students through Southwest-focused simulations, like correlating Mars retrogrades with Anasazi migrations, complete with SHAP explainability to demystify AI decisions and archaeoastronomical attributions.
- **Community Outreach:** Partnerships with Southwest museums (e.g., the Heard Museum, Antelope Valley Indian Museum, and Tomo-Kahni State Historical Park) and tribal programs offer API integrations for custom exhibits—e.g., a desktop dashboard for educators to model environmental resilience at sacred sites, weaving archaeoastronomy into climate literacy and cultural science.

By making orbital-environmental correlations as approachable as a Google Earth tour of Chaco Canyon, this software ignites curiosity, combats climate misinformation, and equips the public with tools for informed stewardship. Early pilots in Southwest schools project reaching 500,000 users in the first year of release, fostering a generation attuned to our planet's cosmic rhythm and Indigenous sky knowledge.

Ongoing Efforts

Developing Seven Fires Corporation for a Cosmic Future

Building on the momentum from the 1999 Dryden presentation and the '512 patent's enduring impact, Seven Fires Corporation is expanding its mission to operationalize these innovations at scale. As a California-endorsed 501(c)(3) nonprofit organization, Seven Fires Corporation focuses on cultural preservation, public education, and stewardship of sacred archaeological sites.

Dr. Alan P. Garfinkel-Gold, PhD, RPA—a renowned California and Great Basin archaeologist, anthropologist, and Registered Professional Archaeologist (RPA)—serves as President. With decades of expertise in rock art studies, Native American cosmology (particularly bighorn sheep ceremonialism), prehistoric forager lifeways, and the peopling of the Americas, Dr. Garfinkel-Gold has authored/co-authored numerous influential publications, including *The Handbook of the Kawaiisu* (2015, with Harold Williams), *Archaeology and Rock Art of the Eastern Sierra and Great Basin Frontier* (2007), contributions to *Tulare Lake Archaeology* series on Ice-Age stone tools, and paradigm-shifting works like "Paradigm Shifts, Rock Art Studies, and the 'Coso Sheep Cult' of Eastern California" (2006). He is also known for the documentary *Talking Stone: Rock Art of the Cosos* and his advocacy for ethical collaboration with Indigenous communities and host to a podcast.

The podcast link is: <https://www.archaeologypodcastnetwork.com/rockart>

C.M. Willhoit serves as Chief Financial Officer (CFO), Co-Founder, Cultural Advisor, and seated member of the Board of Directors. With a profound background in cultural stewardship and interdisciplinary collaboration, Mr. Willhoit provides essential guidance on integrating Indigenous perspectives, ensuring respectful representation of sacred narratives, and aligning financial strategies with the nonprofit's mission of preserving archeoastronomical heritage.

Together, this leadership team—Dr. Garfinkel-Gold as President and Mr. Willhoit as CFO/Co-Founder/Cultural Advisor, and Board Member—drives interdisciplinary initiatives blending archaeology with modern technology, ensuring cultural sensitivity in site stewardship and educational outreach. Their combined expertise has been instrumental in beta testing with Southwest tribal collaborators, field validations at key sites, and the integration of archeoastronomical data into our AI platform—advancing our mission to preserve and interpret sacred landscapes for future generations.

Recent milestones include securing seed funding for VR software localization in Indigenous languages, launching open-source API toolkits for archeoastronomy educators, and initiating field validations at Chaco Culture National Historical Park. Looking ahead, we're pursuing joint ventures with NASA Armstrong and JPL for orbital data enhancements and expanding our Southwest study area to include pilot programs in the Four Corners region. These efforts not only advance the provisional toward non-provisional filing but also cultivate a nonprofit arm for free public access, ensuring equitable distribution of celestial insights.

A Call to the Stars

Join the Journey!

This is more than a patent—it's a bridge between yesterday's skies and tomorrow's safeguards, with the American Southwest as our proving ground. As we face accelerating environmental challenges, this invention Seven Fires Corporation now owns reminds us: The answers are written in the stars, etched in the earth, and alive in our stories. I invite researchers, educators, Indigenous knowledge keepers, and the public to collaborate via sevenfirescorp.org. Together, let's turn celestial insights into earthly action—starting in the Southwest and orbiting the globe.

For more on the original patent, visit [USPTO link](#). Updates on the provisional's archaeoastronomical validations forthcoming—Stay Tuned!

About the Leadership Team...

Seven Fires Corporation is led by Dr. Alan P. Garfinkel-Gold PhD, RPA (President) and C.M. Willhoit (CFO, Co-Founder, Cultural Advisor and Board Member), alongside Founder/Secretary, Joseph T. Williams, advancing interdisciplinary environmental technologies and cultural preservation.

Pioneering the Cosmos-Earth Connection

This announcement is part of an ongoing series celebrating 25 years of orbital innovation, now anchored in The American Southwest Archeoastronomy.

Attachment:

Profile: Dr. Alan P. Garfinkel-Gold, PhD, RPA – President, Seven Fires Corporation

Dr. Alan P. Garfinkel-Gold is a distinguished archaeologist and anthropologist specializing in California and Great Basin prehistory, Native American rock art, forager religion, and animal ceremonialism. Holding a PhD from the University of California, Davis, and certification as a Registered Professional Archaeologist (RPA), he has over 40 years of experience in cultural resource management, academic research, and Indigenous collaboration.

Key contributions and publications include:

- Co-author/editor of seminal works such as *The Handbook of the Kawaiisu* (2015), *Archaeology and Rock Art of the Eastern Sierra and Great Basin Frontier* (2007), and contributions to the Tulare Lake Archaeology series on Paleoindian artifacts.
- Influential articles like "Paradigm Shifts, Rock Art Studies, and the 'Coso Sheep Cult' of Eastern California" (2006), exploring bighorn sheep cosmology and prehistoric symbolism.
- Producer/narrator of the documentary *Talking Stone: Rock Art of the Cosos*, highlighting one of North America's largest rock art concentrations.
- Former adjunct professor at California State University, Bakersfield; Principal Archaeologist at Ultra Systems Environmental; and founding President of the California Rock Art Foundation.
- Host to the Archaeology Podcast Network *Rock Art*. Now showcasing over 150 episodes and gaining viewership popularity, the podcast link is:
<https://www.archaeologypodcastnetwork.com/rockart>

As President of Seven Fires Corporation, a 501(c)(3) nonprofit organization, Dr. Garfinkel-Gold leads efforts in cultural preservation, archeoastronomical research, and public education. His expertise ensures ethical integration of sacred site data into innovative tools, fostering stewardship and bridging ancient Indigenous knowledge with contemporary science for the benefit of tribal communities and global audiences.

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Seven Fires Corporate Executive Advisor:

Howard Quintin Dawson – Computer Scientist/Advisor

Experience References...

Manager: International/National Marketing Support at Bell & Howell Micrographics

Office Business Systems Manager: Vetco Ventura

Manager: Computer/Network Engineering at Computer Sciences Corporation

Former International Office Systems Manager: Vetco Offshore

Former Instructor: Ventura College

Former Sr. Computer Scientist: Ventura County, Ca

Former Computer Scientist: Litton Industries, Guidance and Controls

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The Internet and Social Media...

Websites: <https://www.SevenFiresCorp.org> – Official Corporate Website

<https://www.AVRockArt.com> – Under Construction! “Public Outreach Website”

<https://www.LenzWorx.com> – Joseph Williams’ Personal Professional Website

FB Page: “Seven Fires Corporation” – A California 501c3 Non-Profit Organization!

FB Private Group: “Native American Innovators” – By Invitation Only!