



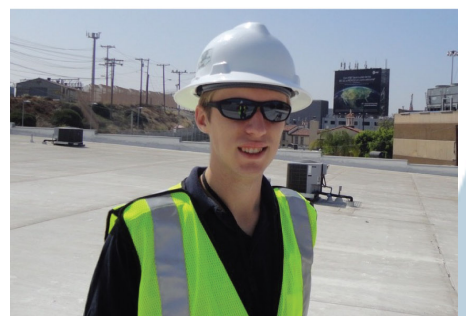
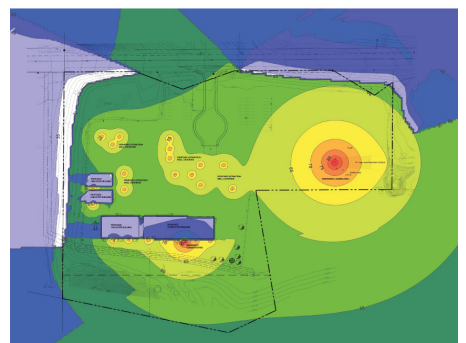
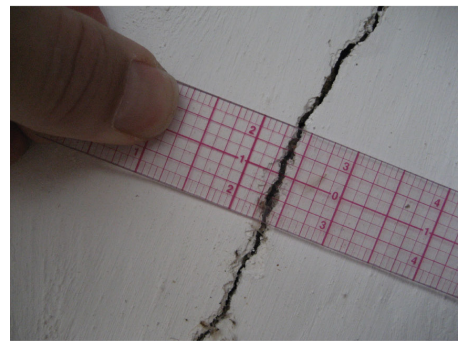
Investigative Science and Engineering, Inc.

"The Leader in Scientific Consulting and Research"

San Diego Corporate Office

P.O. Box 501207, San Diego, CA 92150
(760) 787-0016

www.ise.us



2024 STATEMENT OF QUALIFICATIONS



Investigative Science and Engineering, Inc. (ISE) is a San Diego based woman-owned, small business supplying technical and scientific consulting, research and development (R&D), and mission support to the engineering, environmental, industrial, legal, military, forensic, and scientific communities, since 1997.

For over 25 years, ISE has sustained itself entirely, building a reputation for excellence in custom and quality solutions for our clients. With in-house technology and instrumentation comparable to some university laboratory settings, ISE is one of the best-equipped technical firms of its type. Our company offers a unique blend of intensive interdisciplinary acumen, with a great deal of experience solving problems for a spectrum of different industries, including work on a variety of large infrastructure projects.

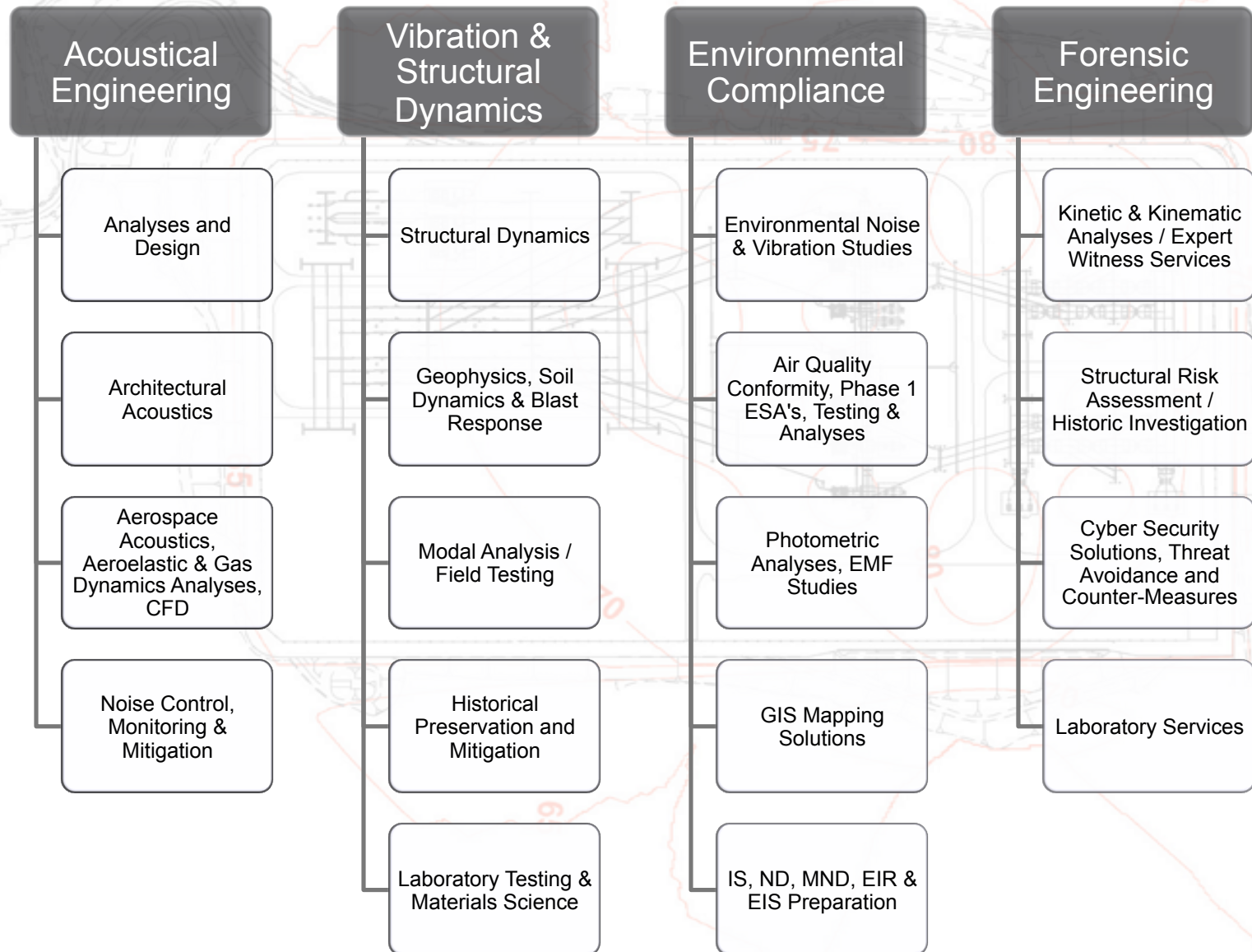
ISE has extensive experience performing technical analyses and monitoring in the diverse areas of *vibration, acoustics and noise control, signal processing, air-quality and GHG analyses, photometric studies, GIS, structural historical monitoring*, compliance with *CEQA/NEPA*, and writing *Environmental Impact Reports/Studies (EIR / EIS)*. Additionally, ISE offers extensive cyber security solutions, threat avoidance and counter-measures technology to our clients.

We have been listening and responding to the needs of not only our past and present clients, but also the growing and changing requirements and applications within the technological, scientific, transportation, and environmental industries.

ISE has very successfully employed a commercialization process of reinvestment of earned revenues toward new research and development of innovative, or more advanced, methodologies, systems, and analytical tools. These have been, in turn, incorporated into our professional services and customized solutions offered to clients.

Services Offered By ISE.

ISE has a solution 'building block' for most complex engineering and environmental problems experienced in today's world. Our expertise includes the following disciplines and services, as detailed below.





Acoustical Engineering

ISE is an industry leader in the field of acoustical analyses. Having well over 3,500 diverse technical assessments and reports under our belt, you can imagine that there is very little we haven't seen. Blasting noise, construction noise, structural acoustics, aircraft noise, rail and subway noise, environmental effects, underwater acoustics, acoustic signatures from rockets - *chances are we've looked at it.*

The acoustical engineering services provided by ISE are designed to provide assistance to groups and individuals requiring a timely solution to both large and small-scale problems.

Acoustical Analysis & Design

ISE's staff is formally trained in the requisite fields of acoustics, fluid mechanics, and gas dynamics allowing us to analyze a problem at a much more sophisticated and technical level than our competitors.

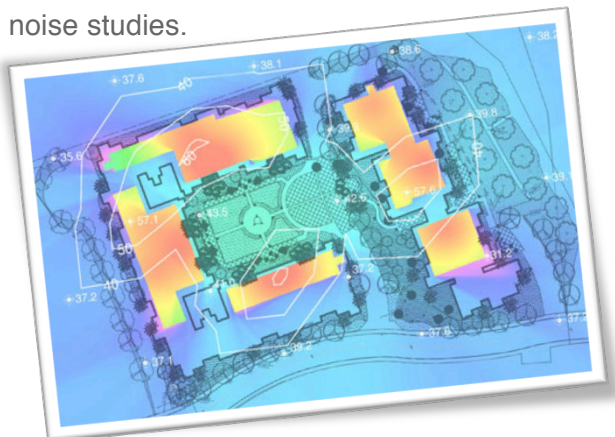
All work is structured to correspond with project siting, design sequencing, and applicable federal, state, and local ordinances and requirements.

Typical environmental noise and general acoustical services provided by ISE include:

- Noise analysis for environmental impact studies compliant with CEQA, NEPA, EPA, and HUD.
- Advanced acoustical modeling using various tools including the IS³ field propagation model.
- OSHA and Cal-OSHA Dosimetry studies and hearing conservation programs.
- Descriptive acoustics and contouring using GIS methods.
- Master Plan acoustical assessments, General Plan studies and updates.
- Roadway, rail, and airport land use compatibility noise studies.
- FHWA Traffic Noise Model (TNM) assessments.
- DoD Air Installation Compatibility Use Zone (AICUZ) noise studies.
- FAA Integrated Noise Model (INM) assessments.
- Industrial and construction worker noise analyses.
- Mitigation monitoring programs and systems.
- Acoustical barrier design.
- Underwater acoustics.
- Spectral, octave-band, and sound power analyses.
- Active and passive noise control technology.
- Acoustical laboratory testing.

"I have worked with Dr. Rick for over 20 years. He has always provided exactly what's needed to complete and move forward with our projects. ISE has always been on the cutting edge with new technology and techniques to provide the information we need for success."

Chuck Isbell -
Vice President
Operations
Warmington
Residential





Acoustical Engineering

Architectural Acoustics at ISE

ISE is one of only a small handful of firms offering a complete suite of acoustical engineering services tailored specifically to architectural applications and compliance with applicable federal, state, and local building requirements.

Services under this category have historically included:

- Noise analysis for environmental impact studies compliant with CEQA, NEPA, EPA, and HUD.
- Advanced acoustical modeling using various tools including the IS3 field propagation model.
- Acoustical space design for audio-visual applications.
- Descriptive acoustics and contouring using GIS methods.
- Reverberation time testing (RT_{60}).
- LEED compatible acoustical analyses.
- Field sound transmission classification (FSTC) testing.
- Normalized isolation classification (NIC) and Outside-Inside Transmission Classification (OITC) and mitigation compliance.
- Field Impact Isolation Classification (FIIC) testing.
- HVAC and industrial noise source mitigation.
- 'Phantom Noise' location and mitigation.
- Active and passive noise control technology.
- Acoustical laboratory testing.





Acoustical Engineering

Aerospace Acoustics, Aeroelastic & Gas Dynamics Analyses, CFD

ISE is one of the only consulting firms specializing in the commercial solution of aeroelastic and high-speed flow problems for clients. Because we're trained as aerospace engineers, we tend to look at all structures as they actually are - semi-rigid objects subjected to inertial, elastic, and aerodynamic forces. This insight gives ISE an advantage when it comes to analyzing complex engineering problems for our clients.

Further, ISE's staff is experienced in computational gas dynamics and the associated thermodynamic challenges. We know that you can only push a fluid so far until the underlying acoustic theories have to step-aside for a more complex and rigorous treatment.

Some of our past efforts have involved:

- Acoustic analysis and prediction of high-pressure gas pipeline blow-down events.
- Aeroelastic analysis and design on consumer products.
- Low speed and high speed wind tunnel testing protocols for clients.
- Dynamic divergence, flutter, and plunge-stability studies for clients.
- Vortex-induced (wind turbine) noise assessments for clients.
- Active and passive noise control technology.
- Acoustical laboratory testing.

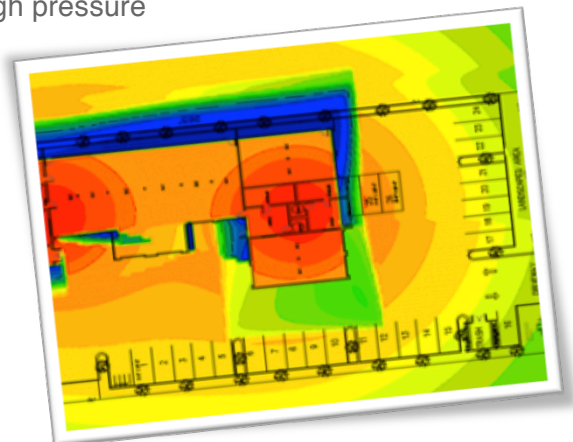


Computational Fluid Dynamics (CFD) at ISE

ISE are experts in the field of computational fluid dynamics (CFD) and wave propagation analysis. We utilize, and have developed numerous predictive computer codes to help our clients understand the effects and impacts from subsonic, transonic, and supersonic flows associated with acoustic wave propagation, aerodynamic flow, rotor and fan wash, vortex shedding, and high pressure sources.

Our CFD capabilities include, but are not limited to the following:

- Predictive modeling strategies.
- Advanced acoustical propagation analysis.
- Fluid-structure interaction studies including added-mass effects.
- Dynamic vortex flutter and instability analysis.
- Predictive model development for client-specific needs including interactive CFD acoustical models.





Acoustical Engineering

ISE's Noise Monitoring & Noise Control Solutions

ISE specializes in custom noise control and monitoring solutions for every imaginable industry application. Whether it is something as simple as a diffractive noise barrier, or active monitoring and control - *we've got you covered.*

Typical noise control and mitigation solutions include:

- Standard barrier design and abatement following applicable federal (FHWA), state, and local protocols.
- Advanced acoustical modeling using various tools including the IS3 field propagation model.
- Field monitoring, Mitigation Monitoring and Reporting (MMRP) compliance, and active warning systems.
- Biological noise monitoring and compliance in accordance with USFWS and CDFG protocols.
- Active and passive noise control solutions.
- Small-scale anechoic laboratory testing.

"ISE's quick response and detailed report enabled our project to comply with regulations while still moving forward efficiently."

Krista Galm -
President
Greenstone
Environmental





Vibration and Structural Dynamics

ISE is a recognized expert in the field of structural and soil dynamics having developed several cutting-edge techniques for the analysis of these types of problems. If it has mass and vibrates, we can develop an analytical solution for it, and apply it empirically in the field. We've examined all manner of surface and in-situ transit ground motion (railways, roadways, subways), construction site impacts, historical building preservation, random vibration, forced motion (modal) vibration, and blasting prediction and monitoring, ranging from small construction projects to underground atomic testing.

As with our acoustical services, the vibration engineering services provided by ISE are designed to provide assistance to groups and individuals requiring a timely solution to both large and small-scale problems. Projects where frequency response and operational performance are critical, will find our services indispensable.

Structural Dynamics Analysis at ISE

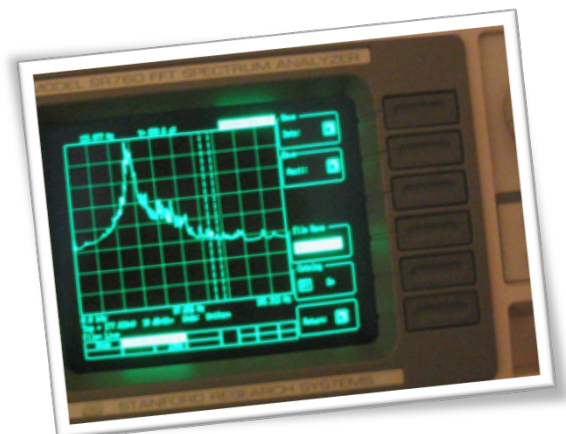
ISE maintains extensive capabilities in the field of structural dynamics, having worked with solid and fluid mechanical systems, seismic propagation, fluid-structure interaction problems, and the development of new predictive theories.

Typical services we provide within this discipline include the following:

- Continuous and Normal Modes Analysis.
- Experimental Modal Analysis.
- Fast Fourier Transform (FFT), Discrete Fourier Transform (DFT), and discrete time series analyses.
- System Identification modeling, experimental damage detection and monitoring.
- Structural risk testing / Historic structural monitoring and protection.
- Finite Element and Boundary Element Analyses.
- Impulsive response design and mitigation.

"ISE provided exceptional service to the Sunrise Powerlink project team. They responded to numerous emergencies and fast track situations with the highest level of professionalism and an eye to creative problem solving. I recommend their services without equivocation."

Dayle Cheever -
Project Manager-
San Diego Gas &
Electric Company





Vibration and Structural Dynamics

Geophysics / Blast Response Mitigation at ISE

ISE has been working for close to two decades on innovative and unique engineering solutions to the problem of measurement and quantification of in-situ dynamic wave response. We have analyzed ground-blasting response on everything from conventional bench blasting to underground nuclear testing.

Our service areas in this discipline include:

- Passive and active monitoring using geophone or seismometer arrays.
- Shear wave velocity testing, up-hole, down-hole seismic testing.
- Structural response and ground coupling.
- Sensitive site compliance testing and site selection due diligence.
- Material and soil damping estimations including soil-structure transmissibility testing.
- Construction and operational vibration isolation and avoidance.
- Blast mitigation control using analytical and experimental methods.
- Surface wave propagation analysis and damage avoidance.





Vibration and Structural Dynamics

Modal Analysis Services at ISE

Modal analysis is the experimental determination of the vibrational properties (i.e., normal modes) of a physical structure or object. ISE is one of the only consulting firms outside of a university setting, which maintains a fully functional modal analysis testing laboratory, with field capabilities. If the problem is finding out the dynamic behavior of something, then ISE has the tools and expertise to find the answer.

Our modal analysis services include the following:

- Generalized frequency response analysis.
- Natural frequency and mode shape characterization.
- Civil structure field surveys including historic structural testing and abatement.
- Engineering damping estimates.
- PSD and time-domain analyses of complex systems.
- Laboratory testing including active shaker excitation and uniaxial shake table measurements.
- Equipment failure and cycle fatigue analysis.
- Structural and mechanical health monitoring including residual force analysis and failure progression analysis.





Vibration and Structural Dynamics

Laboratory Shake Table Testing at ISE

ISE houses a complete dynamic analysis laboratory consisting of an APS Dynamics long stroke shake table, capable of small-scale modal analysis and seismic testing from DC to approximately 200 Hz. Our table is capable of recreating complex waveforms at up to 50 pounds peak force, or a velocity up to 1000 mm/s over 160 mm of linear travel. We have assisted our clients in measuring the response characteristics of specimens for research, aviation, space, military and general civil engineering applications. This table is also used to calibrate every piece of dynamics equipment in our laboratory.

Past applications which clients have found useful include:

- Dynamic response characterization.
- Fatigue testing.
- Product and prototype testing.
- Scientific research and investigations.
- Forensic investigations.

ISE's physical science laboratory is traceable to standards set forth by the American National Standards Institute (ANSI), the American Society for Testing and Materials (ASTM), the International Organization for Standardization (ISO), and the National Institute of Standards and Technology (NIST). We maintain our own Rubidium atomic time and frequency standard accurate to 10^{-10} seconds.





Environmental Compliance

ISE offers a full suite of specialized technical consulting services geared towards problems experienced in the environmental community. In fact, our clients appreciate our advanced capabilities and services in even the most technically demanding areas of environmental engineering, where our innovative solutions have always saved time and money through reduced mitigation requirements.

Specifically, ISE provides expert consultation, field monitoring and technical assessments, in the fields of environmental acoustics/noise control, vibration, air-quality/GHG conformity, photometric/lighting studies, compliance with CEQA/NEPA, and preparation of Environmental Impact Reports/Studies (EIR / EIS).

Additionally, ISE offers specialized technical and laboratory testing services which are beneficial to environmental planners and project applicants, including electromagnetic assessments, mass spectrographic testing of gaseous samples, and GIS mapping solutions.

Environmental Noise Control at ISE

ISE provides a full spectrum of acoustical consulting services necessary for compliance with environmental regulations, including the National Environmental Policy Act (NEPA), and the California Environmental Quality Act (CEQA). Our capabilities include the ability to perform intensive site noise monitoring, ambient level determination and verification, site and topographic noise modeling, noise contour generation, and design-phase noise mitigation.

Typical environmental noise and general acoustical services provided by ISE include:

- Noise analysis for environmental impact studies compliant with CEQA, NEPA, EPA, and HUD.
- Advanced acoustical modeling using various tools including the IS3 field propagation model.
- Descriptive acoustics and contouring using GIS methods.
- Roadway, rail, and airport land use compatibility noise studies.
- Air Installation Compatibility Use Zone (AICUZ) noise studies, Master Plan acoustical assessments, and General Plan aircraft studies and updates.
- Industrial and construction noise analyses.
- OSHA and Cal-OSHA Dosimetry studies and hearing conservation programs.
- Mitigation monitoring programs and implementation, short- and long-term noise monitoring programs.
- Acoustical barrier design for roadways and industrial sources.
- Spectral analyses, sound power analyses, FFT analysis.

"I became acquainted with Rick Tavares and ISE in the mid 1990's when I was the City Planner for a coastal San Diego community. As a retiree and community volunteer, I recommend the services of ISE to community members and institutions when they face the likelihood of excessive noise created by neighboring outdoor commercial activities. During the almost 20 years that I have seen their work, ISE's studies and mitigation measures have always been well documented, creative and well within the parameters of professional standards."

Bill Weedman -
City Planner,
Retired and
Community
Volunteer



Environmental Compliance

Environmental Vibration Solutions at ISE

ISE is a recognized leader in mechanical and dynamic vibration analysis, and has a full range of portable modal analysis testing equipment capable of extracting frequency, damping, and mode shape information from structures such as buildings, railcars, automobiles, bridges, aircraft and more. This information enables our engineers to generate a complete "picture" of the test specimen's dynamic behavior. Input excitation levels of up to 5,000 pounds force are possible using our modally tuned 12-pound sledgehammer.

The vibration services provided by ISE are designed to provide assistance to groups and individuals requiring a timely solution to both large and small-scale dynamic excitation problems. Clients with projects where frequency response, vibratory interference, and operational performance are critical, will find our services indispensable.

ISE's environmental vibration solutions include the following state-of-the-art services:

- Complete modal testing to determine dynamic structural response.
- Free- and forced-response monitoring of any civil engineering structure.
- Building vibration impact studies (monitoring, historic, residential).
- Remote blast monitoring and recording system deployment.
- Ground transmissibility and wave attenuation studies.
- Damping estimations for both soil and structural systems.
- Seismic loading analyses and failure determination.
- Vibration reduction and base isolation strategies for mechanical and civil structural systems.
- Residential, commercial, and mass transportation vibration monitoring.
- Elastic residual force analyses methods for structural damage detection and health monitoring.
- Construction vibration analyses (drilling, tunneling, blasting).
- Laboratory testing using in-house 100-pound shake table.





Environmental Compliance

Air Quality Conformity at ISE

ISE offers a comprehensive suite of air quality and air toxics analyses geared principally towards prediction and mitigation compliance of air emissions due to proposed project design standards. Each air quality impact assessment (AQIA) prepared by ISE is tailored to the client's individual needs and is consistent with known engineering practices and constraints.

ISE's air quality analyses are unique, technical, substantiated by defined scientific calculations and chemistry, and traceable to EPA protocol.

Common air quality studies and assessments performed by ISE include:

- Industrial and commercial air quality analysis studies.
- Rapid screening of potential project impacts using ISE's BTU air emissions model.
- Advanced air quality sampling and laboratory testing using Mass Spectrometry residual gas analysis.
- Site hazard screening for Radon (Rn), carbon monoxide (CO), hydrogen sulfide (H₂S), and trace EPA-specific criteria pollutants.
- National Institute of Standards and Technology (NIST) chemical screening of residual gasses against 196,000 different compounds.
- Greenhouse gas / global warming (AB 32) project compliance assessments using the United Nations Intergovernmental Panel on Climate Change (IPCC) scientific protocol.
- Construction, mining, and grading fugitive dust impact assessments.
- Emissions inventory assessments using Federal EPA and CARB modeling.
- Line source dispersion modeling for carbon monoxide (CO), oxides of nitrogen (NO_x), oxides of sulfur (SO_x), and respirable particulate matter (PM₁₀, PM_{2.5}).
- Federal (EPA) and State (Cal-EPA) compliance surveys.
- Toxic risk assessments including diesel emissions surveys.

"CEQA level noise and air quality studies prepared by ISE have been instrumental in identifying cost effective mitigation measures."

Phillip L. Hinshaw - Principal
A.D. Hinshaw Associates





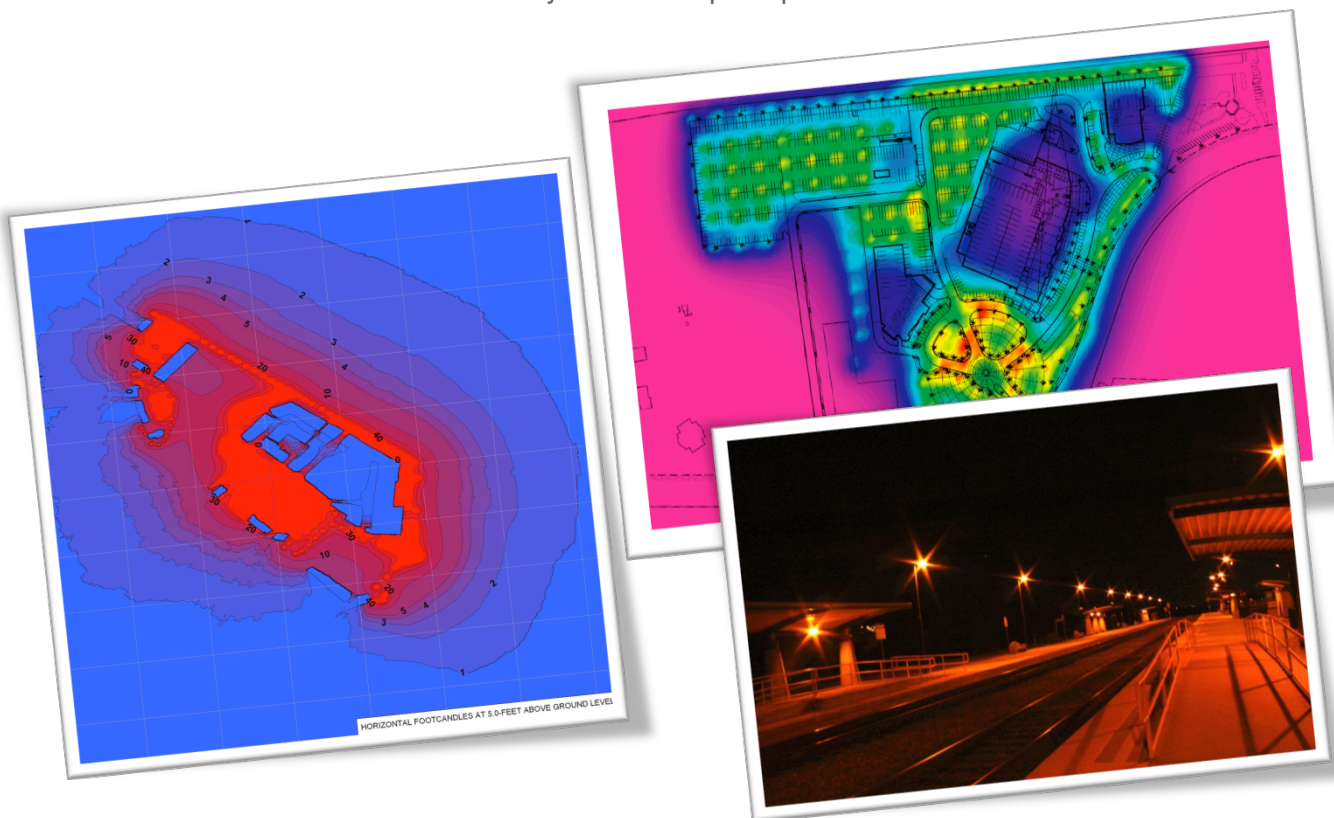
Environmental Compliance

Lighting & Illumination Assessments

ISE provides a complete range of lighting and illumination analysis services geared towards commercial and industrial compliance, as well as general safety concerns addressable through the Occupational Health and Safety Organization (OSHA) and the National Institute of Occupational Safety and Health (NIOSH). ISE utilizes state-of-the-art equipment and procedures to provide lighting solutions at reasonable costs to our clients.

ISE has provided lighting analysis solutions for schools, playgrounds and athletic fields, commercial centers, parking areas, industrial settings, and various secure sites. Lighting and illumination services provided by ISE include:

- Industrial and commercial lighting analysis and studies.
- OSHA / NIOSH compliance safety surveys.
- Illumination field modeling using the ISE *Lightmap* field propagation program for visible, near-infrared, and ultraviolet portions of the electromagnetic spectrum.
- Illumination contour visualization using GIS mapping methods.
- Planning and design of light critical areas.
- Customized illumination analysis based upon specific client needs.





Environmental Compliance

Electromagnetic Pollution Control at ISE

ISE provides a complete suite of electromagnetic field (EMF) and Radio Frequency (RF) services designed to detect interference and anomalies, as well as develop comprehensive mitigation solutions and site development plans. All of ISE's EMF and RF assessment services are performed by engineers extremely knowledgeable in the physics of electromagnetic field propagation, and who are also FCC licensed amateur radio station operators.

Typical support services include:

- EMF/RF field and modulation detection over usable electromagnetic spectrum from 100 KHz to 300 GHz.
- EMF/RF field mapping with Geographic Information System (GIS) Applications.
- FCC OET Part 65 compliance studies for cell tower and large antenna systems.
- Field strength modeling and terrain propagation analysis.
- EMF/RF mitigation designs including RF room shielding and conduit field reduction.
- Interior EMF/RF pollution and workplace evaluations.
- Covert surveillance detection and hidden transmitter location within structures.





Environmental Compliance

Environmental GIS Solutions at ISE

ISE provides a comprehensive set of cost-effective Geographic Information System (GIS) mapping services built around the Delorme XMAP GIS suite, QGIS, and Google Earth Professional. Our GIS capabilities are tailored to specific client needs and project reporting requirements. We are one of the only firms capable of performing detailed scientific analyses and accurately representing the findings in the GIS format.

Typical GIS services provided by ISE include:

- Geospatial analysis, data processing, and descriptive statistics including variational calculus methods.
- Site presentation based upon various physical science metrics.
- Geometric and spatial constraints assessments using various primary data sources.
- GIS-based network analyses including, surface, gradient, aspect, and visibility analysis of engineering problems.
- Remote sensing using aerial/satellite databases and field deployment systems.
- GIS-based project analyses and feasibility studies.



"I have worked on several projects with Dr. Tavares ("Rick") as a GIS Analyst, CAD Drafter and Technical Illustrator since the mid 90's. His thorough knowledge of the subject matter and the science behind the data being portrayed on a map makes for some incredibly informative data visualization. If you want a one-stop shop for your engineering and environmental solutions, hire Investigative Science and Engineering. They know what they're doing!"

Jim Rinks -
GIS, CAD and
Data
Visualization
Consultant



Environmental Compliance

Environmental Site Assessments / Due Diligence & Reporting at ISE

ISE provides a broad suite of environmental site assessment and due diligence services geared towards commercial and industrial site compliance, as well as general safety concerns addressable through the Occupational Health and Safety Organization (OSHA) and the National Institute of Occupational Safety and Health (NIOSH). ISE utilizes state-of-the-art equipment, techniques, and procedures to provide significant peace-of-mind to our clients.

Environmental Site Assessment / Due Diligence & Reporting services provided by ISE include:

- General Phase 1 Environmental Site Assessments (ESA's) for real estate transactions.
- OSHA / NIOSH / ASTM compliance safety surveys and investigations.
- Rigorous site due diligence background investigations, historic use investigations, and chain-of-title investigations.
- State-of-the-art GIS mapping methods of potential site impacts with RCRA and CERCLA compliance.
- Indoor air quality testing including Radon screening using mass spectrographic methods.
- California Accidental Release Prevention (CalARP) seismic risk assessments.
- Preparation of environmental documentation including CEQA and NEPA technical assessments, environmental initial studies (IS), mitigated negative declarations (MND), federal no significant impact statements (FONSI), and Environmental Impact Reports (EIR's) / Environmental Impact Statements (EIS's).





Forensic Engineering

When knowing the correct cause-and-effect of an engineering problem is of paramount importance, think ISE. We approach the problem of engineering forensics, not as others do, using rules-of-thumb or best consensus, but from the fundamentals of physical science - where there can only be one answer, the correct one.

ISE specializes in general accident reconstructions, as well as kinetic (properties of force) and kinematic (properties of motion) analyses. We also perform environmental effects analysis to determine whether or not something is a man-made failure, or just the environment wearing it out. So whether it's construction defect issues, accidents, or the catastrophic failure of an engineering system, we're here to provide the answers.

...and should you need us, it's good to know that ISE has worked in the expert witness field for close to two decades, providing expert opinions and testimony, scientific demonstrations for trial settings and mediations, as well as bringing attorneys and other experts 'up to speed' in scientific principles that might be tangential to their area of expertise.

Kinetic and Kinematic Analyses / Expert Witness Services

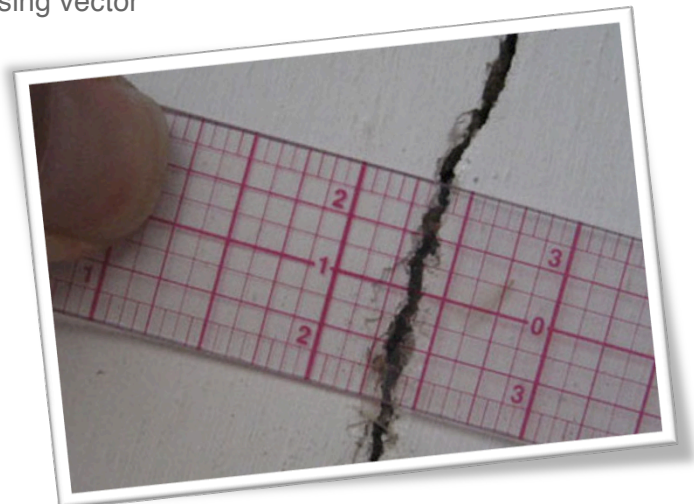
At the heart of any forensic problem involving the laws of physics are two fundamental quantities: the path of the action under investigation (kinematics), and the forces involved to produce the observed motion (kinetics). ISE utilizes its strong background in engineering mechanics to solve problems of this type, and applies the findings to clients' specific needs.

"Not only is Dr. Tavares extremely knowledgeable in his field, but he also works hard to assist in the problem solving aspects of his assignment."

Sandra J. Brower
– Attorney -
Sullivan Hill
Lewin Rez &
Engel

Typical forensic services under this category include:

- Forensic field examinations, inspections, and documentation under full chain of custody.
- General and specific particle motion analysis using vector methods.
- Linear and non-linear motion analysis under multi-degree-of-freedom conditions.
- Determination of specific impulse, momentum, and force properties to accident problems.
- Computer modeling and simulations.
- Litigation scientific research assistance.
- Scientific coaching.
- Expert witness services.





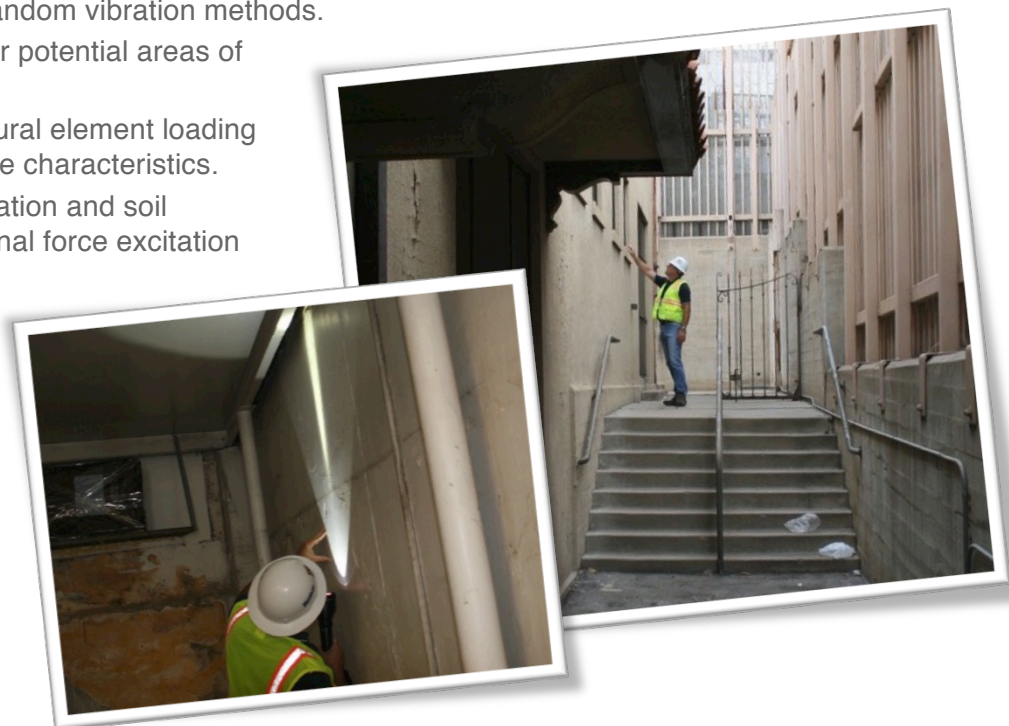
Forensic Engineering

Structural Risk Assessment / Historic Preservation

ISE's historic preservation services are a natural extension of our structural dynamics services which we have applied successfully to dozens of historic properties, including ones on the National Register. We take the concept of nondestructive testing to its logical conclusion by combining wave theory with structural mechanics in archaic, antiquated, and historic structures. Since any structure can only move a certain number of ways based upon its geometry, mass, and material stiffness, we utilize this knowledge to our advantage to 'see' inside the structure to determine structural integrity, anomalies, and areas of weakness and/or potential failure before they occur.

All historic preservation work is performed in accordance with Code of Federal Regulations, 36 CFR Part 61 (Secretary of the Interior's Standards). Typical structural risk assessment services provided by ISE include:

- Background search of properties, significance, and history.
- GIS mapping of historic assets and past aerial mapping.
- Physical inspection and structural reporting of dated, questionable, or historic structures.
- Pre- and Post-construction structural surveys.
- Preparation of Historical Property Preservation Plans (HPPP).
- Seismic construction and blast modeling and monitoring.
- Nondestructive testing of structural elements, or entire structures, using forced excitation (modal analysis) methods or random vibration methods.
- Location of weak and/or potential areas of failure.
- Determination of structural element loading using dynamic response characteristics.
- Determination of foundation and soil transmissibility to external force excitation



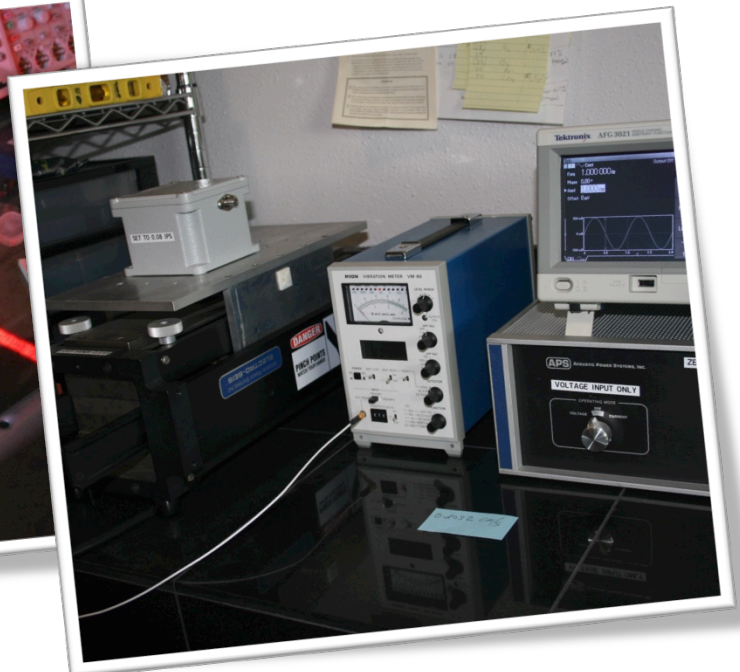
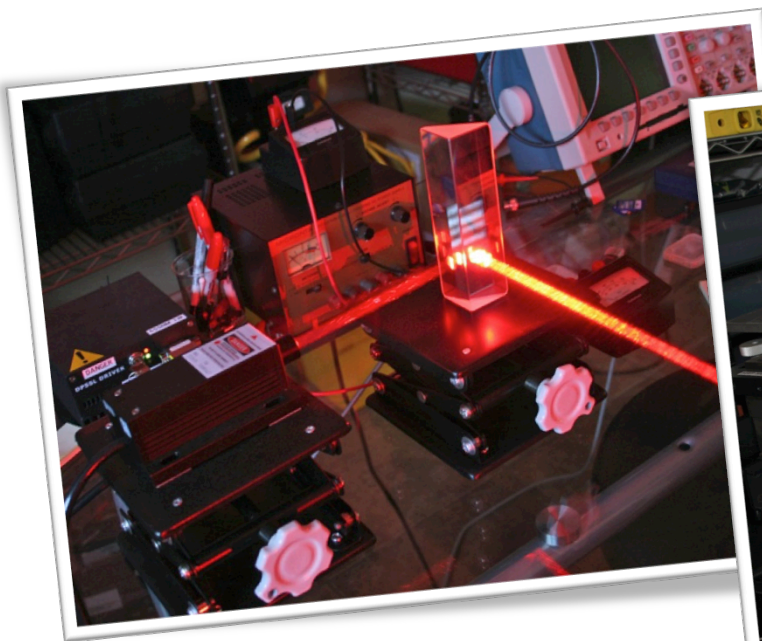
Forensic Engineering

Laboratory Services

ISE maintains a secure physical science laboratory traceable to standards set forth by the American National Standards Institute (ANSI), the American Society for Testing and Materials (ASTM), the International Organization for Standardization (ISO), and the National Institute of Standards and Technology (NIST). We maintain our own Rubidium atomic time and frequency standard accurate to 10^{-10} seconds.

Our laboratory has the following capabilities assisting any forensic engineering project:

- Complete acoustical and dynamic modal analysis laboratory.
- Physical inspection and microscopy facilities.
- Complete acoustical testing laboratory.
- Cyber security testing, threat avoidance and counter-measures technology.
- Forensic electronics examination.
- Uniaxial dynamic shake table capable of recreating complex waveforms up to 50 pounds peak force, or a velocity up to 1000 mm/s over 160 mm of linear travel..
- Complete mass spectrographic analysis capabilities from 1 to 300 AMU.
- Electrostatics and laser test benches.
- Time and frequency domain data sampling.





Founding Principals

Rick Tavares, Ph.D.

Dr. Tavares has over 20 years of experience in the analysis and solution of engineering and scientific problems dealing with the transient and forced vibratory response of linear and nonlinear systems within the structural, mechanical, and aerospace fields. As an expert in the field of wave theory and propagation, his work has emphasized interactions of solid and fluid mechanical systems including seismic propagation, acoustic sources including sonar, and gas dynamics. He has worked extensively in the field of composite structural design, as well as dynamic modal analysis, having pioneered new analytical methodologies for civil and aerospace engineering applications.

Dr. Tavares is a published author who has written in excess of 3,500 peer-reviewed technical, engineering, and scientific reports, including journal publications, articles, and scholarly books, examining such diverse topics as general physics, astrodynamics, wave propagation, mass spectroscopy, gas dynamics, structural and environmental acoustics, air pollution transport, structural dynamics and control systems, and electromagnetic propagation. He is the author of numerous predictive programs in the fields of acoustics, computational fluid mechanics, structural dynamics, seismic analysis, composite analysis, modal analysis, and both finite and boundary element analyses.



EDUCATION

Ph.D. Civil Engineering, University of California - Irvine

Concentration: *Geophysics of seismic wave propagation in elastic solids due to conventional and nuclear blasting.*

Dissertation: *Determination of Blast-Induced Dynamic Soil Response Using Axisymmetric Boundary Elements.*

Summary: A computationally efficient solution strategy for the prediction of blast-induced ground motion using the Boundary Element Method. The clear advantages of this new approach are in its ability to capture the actual physics of the problem as well as providing an insight into the effects of blast-frequency on the actual observed response. The developed boundary element provides the necessary nexus between the classical theory and the empirical response characteristics.



Founding Principals

M.S. Structural Engineering, University of California - San Diego

Concentration: *Aerospace composite structural engineering / dynamic structural analysis.*

M.S. Mechanical Engineering, San Diego State University

Concentration: *Experimental dynamic analysis, modal analysis, control system development, industrial robotics.*

Thesis: *A Computational Method for Determining Composite Rectangular Plate Deflections, Stresses, and Natural Frequencies Subject to Hygrothermal Effects.*

Summary: Theoretical development and modeling of rectangular generally anisotropic composite plates and panels used in the aerospace industry. The solution approach, an adaptation and extension of the Rayleigh-Ritz method, predicted aggregate system response due to simultaneous mechanical deflections (extension, bending and twisting), hygrothermal environmental effects, and varying initial/boundary conditions. The model also predicted first natural frequency and mode response under combined states of stress.

B.S. Aerospace Engineering and Engineering Mechanics, San Diego State University

Concentration: *Composite structural analysis, aerospace flight systems engineering, aircraft and missile control and design.*

PUBLICATIONS

What's The Matter ???

Kiwibird Press (ISBN: 978-0-9885401-4-9)

Co-Author: Karen Tavares

What's The Matter ??? is a whimsical guide to the periodic table of the elements and the 'stuff' that makes up matter itself. This manuscript is currently in progress with an anticipated publication date in late 2017.

The Guru's Guide to the Universe... A Practical Guide to Modern Physics.

Kiwibird Press (ISBN: 978-0-9885401-0-1) April 2013

The Guru's Guide to the Universe is written for anyone with a keen interest in understanding applied physical science. It is a richly illustrated text, utilizing a lighthearted style to convey the qualitative and quantitative essence of the subject matter including the topics of physical measurements, scalars and vectors, matter, atomic theory and the elements, motion, momentum, friction, Newton's Laws, work and energy, collisions, rotational mechanics, fluid mechanics and wave motion, heat, temperature, the Laws of Thermodynamics, fundamental forces in nature, electricity and magnetism, light, and special and general relativity.



Founding Principals

Analysis of Composite Structural Materials

Kiwibird Press (ISBN: 978-0-9885401-2-5) January 2015

College level text on aerospace structural analysis with an emphasis on composite materials and their use in engineering, the macromechanical behavior of single ply lamina, micromechanical behavior of composite lamina, generalized lamination theory, plastic analysis and failure theories of orthotropic materials, laminated plate analysis, analysis of composite beams, columns, and beam-columns, stress concentrations in orthotropic plates, fracture mechanical models in composite systems, bending of laminated cylindrical and spherical shells, orthotropic circular structural elements, composite joint analysis, energy methods in composite analysis, finite element solution techniques, and environmental effects in composites.

Astrodynamics and the Mechanics of Orbital Motion

Kiwibird Press (ISBN: 978-0-9885401-3-2) October 2015

College level textbook on astrodynamics and orbital mechanics primarily targeted towards the undergraduate astrophysics, aerospace engineering, or astronomy audience. This book bridges the gap between classical orbital theory, and engineering application, by providing the necessary derivational solutions in a real-world setting. This text also includes a new method chapter on iteratively updating orbital elements based on visual observations to predict future motion and reacquire lost satellites.

The book provides a review of vector and tensor concepts, the mechanics of an orbiting body, coordinate system transformations, orbital properties, basic and advanced orbital maneuvers, time-of-flight solutions to the flight equation, the Gauss and Kepler problems, lunar orbits, interplanetary orbits, ballistic missiles, reacquisition of targets using orbital element iteration, perturbation theory, applications to aerospace engineering and general astronomy, and computer solution techniques.

Determination of Blast-Induced Dynamic Soil Response Using Axisymmetric Boundary Elements

University of California 2001

Theoretical development of a mathematical model, using the boundary integral solution method, for the prediction of generalized conventional- and nuclear-induced ground wave motion.

Improved Method for Determining Surface Wave Blast Response

International Society of Explosives Engineers (ISEE) 2001

Development of a simplified boundary element solution for the prediction of conventional construction blasting ground motion.

Modeling of Rayleigh Wave Vibration in Elastic Solids due to Construction Blasting

Journal of the Institute of Noise Control Engineering (INCE) 2001

Application of a simplified boundary element solution for the prediction and mitigation of surface wave production in an unbounded elastic medium due an impulsive blasting force.



Founding Principals

Improved Modeling of Electrical Substation Equipment for Seismic Loads

International Conference on Structural Engineering Mechanics and Computation, Capetown, SA. 2001

Co- Authors: Rick Tavares, Ph.D., Pardoen, G.C., Villaverde, R.

Improved methods for dynamic response and seismic load modeling of electrical substation equipment through a combination of experimental and analytical studies.

State of Arizona Mine Inspection Procedures Manual

Office of the Arizona State Mine Inspector 2000

Complete rewrite of the official Mine Inspection Procedures Manual pursuant to the 1993 Mining Code of the State of Arizona.

Noise Effects on Least Bell's Vireo: Studies of Military Helicopter Activity

Hubbs-Sea World Research Institute 1997

Co-Author: Patrick Mock, Ph.D.

Field investigation examining the acoustical and biological effects of aircraft noise at MCAS Pendleton to the Least Bell's Vireo (*Vireo bellii pusillus*).

Calculation of Sound Pressure Levels Due to Isentropic Free Expansion in a Pipeline

ASME Energy Week '97 Conference Paper 1997

A mathematical model describing the acoustic pressure levels and shock discontinuity due to the free adiabatic expansion of an isentropic gas under high pressure.

Vibratory Influence Zone Calculation Using Modified Modal Impact Methods

Proceedings of the Institute of Noise Control Engineering (INCE) 1996

A computational method for the rapid determination of vibratory influence zones due to blasting based upon the solution of a constrained SDOF damped harmonic oscillator system with linear material damping.

Using Experimental Modal Data to Detect Damage in a Space Truss

25th American Institute of Aeronautics and Astronautics (AIAA) SDM Conference 1993

A computational method using combined residual force analysis and sensitivity variations to predict the presence of damage and added-mass to a lightly damped, freely supported, space truss.

A Computational Method for Rectangular Plate Deflections, Stresses, and Natural Frequencies Subject to Moisture and Thermal Effects

California State University (CSU) 1992

A computational method to determine composite material rectangular plate deflections, stresses, and natural frequencies subject to various hygrothermal and edge loading effects using a modified Rayleigh-Ritz derivation.



Founding Principals

ENGINEERING CLASSES TAUGHT

Adjunct Professor for multiple semesters in the following courses in the Colleges of Aerospace Engineering and Civil Engineering at San Diego State University:

Engineering Mechanics / Statics (AE 200)	Advanced Engineering Mathematics (E 280)
Statics and Dynamics (EM 220)	Composite Structural Analysis (EM 530)
Theory of Elasticity (EM 621)	Theory of Plates and Shells (EM 610)
Fluid Mechanics (EM 340)	Rocket and Space Propulsion (AE 530)
Aeroelasticity and Acoustics (AE 480)	Astrodynamics (AE 320)
Experimental Aerodynamics (AE 303)	Introduction to Solid Mechanics (CE 301)
Solid Mechanics Lab (CE 302)	Seminar on Civil Acoustical Engineering
Short Course on Experimental Modal Analysis	Experimental Structural Analysis (CE 496)

HONORS AND AWARDS

Lifetime Member with Honors

Tau Beta Pi - Xi Chapter California April 1991

Tau Beta Pi is the only engineering honor society representing the entire engineering profession. It is the nation's second-oldest honor society, founded at Lehigh University in 1885. Membership is conferred for distinguished scholarship and exemplary character in the field of engineering.

Degree of Excellence

National Forensic League June 1983

The National Forensic League is a non-partisan, non-profit educational honor society established to encourage and motivate American high school students to participate in and become proficient in public speaking. The League is the America's oldest and largest high school speech and debate honor society.

CERTIFICATIONS

National Security Clearance - Secret	United States Department of Defense
OSHA 40-Hour Hazardous Waste Operations Certification	Occupational Safety and Health Administration (OSHA)
Cal-OSHA First Responders Certification	29 CFR 1910.120(e), (q)(6)(ii)
Registered Environmental Assessor Class I (06775)	State of California 8 CCR 5192(e), (q)(6)(B)
Confined Space Entry Training Certification	California Environmental Protection Agency
MSHA Mine Safety & Hazard Certification	OSHA 29 CFR 1910.146
FCC Amateur Station Operator - Technician Class (KJ6OZY)	MHSA PL 91-173, PL 95-164
	Federal Communications Commission



Founding Principals

Karen Tavares

Karen Tavares has been working in the fields of electrical, electronic, and systems engineering for over 20 years. She has extensive experience in the development of mixed analog/digital PCBs and multi-component instrumentation systems, including schematic and circuit board layout design, prototyping, testing, and integration, as well as design of EMI protection for electronics. Her work has been used for a wide variety of applications, including control-feedback systems, data acquisition units, cryogenic instrumentation, low and high temperature superconductor sensor controllers for magnetometers, fiber-optic data transfer systems, head-mounted video displays, and even virtual reality systems.

As the principal owner of ISE, Ms. Tavares has performed innovative custom data acquisition system design, integration, testing, and field deployment for many project specific applications, including environmental monitoring. She has been responsible for managing projects, and coordinating with outside vendors, as well as supervising and training multi-disciplinary technical staff in the effective field implementation of scientific instrumentation for numerous application-driven projects.



EDUCATION

B.S. Electrical Engineering, San Diego State University

Concentration: *Digital signal processing and control systems.*

Teaching Credential Program, San Diego State University

Concentration: *Single Subject Credential in Science/Chemistry*

Post-Baccalaureate Coursework / Professional Development

San Diego State University – *Chemistry, Organic Chemistry, Computer Science*

University of California San Diego (Extension) – *Education*

California State University San Marcos – *German Language*



Founding Principals

PUBLICATIONS

What's The Matter ?!?

Kiwibird Press (ISBN: 978-0-9885401-4-9)

Co-Author: Karen Tavares

What's The Matter ?!? is a whimsical guide to the periodic table of the elements and the 'stuff' that makes up matter itself. This manuscript is currently in progress with an anticipated publication date in late 2017.

HONORS AND AWARDS

Presidential Service Award

La Jolla, California, June 1984

Awarded for continued achievements in service to the community, and leadership exhibited as the student President of *Service League*.

CERTIFICATIONS

CPR/AED Certification

American Heart Association - License CA20091

California Preliminary Single Subject Credential –
General Science/Chemistry

California Commission on Teacher Credentialing -
Document # 160103032

Cal/OSHA 24-Hour First Responders Certification
FCC Amateur Station Operator Technician Class
(KJ6OZV)

State of California 8 CCR 5192(e), (q)(6)(B)
Federal Communications Commission - License
0020834271



Current and Past Clients

ISE has completed thousands of projects for clients ranging from small to large commercial venture groups, public utility companies, infrastructure and defense-related government agencies, long-range scientific and planning projects, research with academia and the scientific community, and all manner of forensic and due-diligence work, as well as strictly confidential assessments.

Below is a list of some of the individuals, corporations, and governmental entities to whom we have rendered technical and scientific consulting services.

101 Coastal Investors, LLC	Baulot, LLC
602 Investments, Inc.	Beach and Bayside Vacations
1007 Investments, Inc.	Bennett Realty Group
A.D. Hinshaw Associates	Birmingham Air National Guard
Acacia Ventures, LLC	Black Gold, LLC
Action Marketing	Blackhawk Development
ADJ Enterprises	Blackstone Real Estate Advisors
Aero Drive Two, LLC	Bonita Park LLC
Affinis Environmental Services	Boyle Engineering Corp.
AGRI Service	Bradley Land Group
Aleto Construction	Brawley Elementary School District
All Phase Enterprises, LLC	Breeze Hill, LLC
All Star Equities, LLC	BRG Consulting, Inc.
Allard Jansen Architects, Inc.	Brian F. Smith & Associates
Allied Industrial Systems, Inc.	Bridge Housing Corporation
Alpine 21, LLC	Bridge Investment Group Partners
Alpine Meat Company	Brown and Caldwell
ALTI Corp.	Buie Communities
Amber Homes, Inc.	Buie/Irish Ventures
Ameribuilt Construction, Inc.	Bunton Construction
American Horizons Ltd.	Burkett & Wong
Apostolic Assembly Church	Bush Construction & Development
Aqua Clean Car Washes	Bycor
Architects Hanna Gabriel Wells	C&M Door and Trim, Inc.
Arizona State Mine Inspector	Cajon Valley Union School District
Asaro, Keaky, Freeland & McKinley, LLP	Cal Sun Development Company
Autowerks, Inc.	Cal-Americas
Avalon Bay Communities, Inc.	Cal-Republic Company
AVL North America, Inc.	California Air National Guard
Axiohm Components	California Equities
Baker Electric Inc.	Caltrans District 11
Barona Band of Mission Indians	Calvary Chapel San Diego
Barratt American	Canyon Crest Estates, LLC



Current and Past Clients

Capital Income Properties, Inc.	Classic Residences By Hyatt
Carlitas Company	CMS Development
Carmel Cove Homeowners Association	ColRich Construction, Inc.
Carter Collision Service Inc.	ColRich Residential
Carter Reese & Associates	Community Housing of North County
Castle Arch Real Estate, LLC	Community Housing Works
Catellus Residential Group	Concordia Communities, LLC
Catholic Archdiocese of San Diego	Construction Projects Supervisor
CBRE	Cornerstone Communities
CDS Architects & Engineers	Cornerstone Lofts, LLC
Centex Homes	Cottage Development Company
Centex Southern California	Country Glen Residential, LLC
CESN Construction	County of Imperial
Chalice Unitarian Universalist Congregation	County of Los Angeles
Chelsea Investment Corp.	County of Riverside
Chevron Corp.	County of Riverside Code Enforcement
Child Abuse Prevention Foundation	County of San Diego
City of Blythe	County of San Luis Obispo
City of Brawley	County Sanitation Districts of Los Angeles County
City of Calexico	Covo Automotive Center
City of Carlsbad	Crest View Properties
City of Chula Vista	Cryogenic Control Systems, Inc.
City of Del Mar	Cuatro Development Inc.
City of El Cajon	Cubelis Corp.
City of Encinitas	Culbertson, Adams & Associates
City of Escondido	Curtis Scott Englehorn & Associates
City of La Mesa	D.R. Horton, Inc.
City of Laguna Niguel	D'Alton Partners
City of Los Angeles	Dartmouth Development
City of Napa	Dat-U-Joe Realty, Inc.
City of National City	David Evans & Associates
City of Oceanside	David R. Shibley and Associates
City of Poway	Del Cerro Chevron
City of Rancho Verona	Del Mar Heritage, LLC
City of San Clemente	Del Webb
City of San Diego	Dennis Company Precision Tool
City of San Diego Water Utilities Department	Deutsch & Associates
City of San Francisco	Developers Investment Group, LLC
City of San Marcos	Development Contractor, Inc.
City of Santa Rosa	Development Design & Engineering, Inc.
City of Vista	Dewald & Associates
City of Windsor	DMJM + Harris



Current and Past Clients

Domestic Architecture
Don Edson Architect, Inc. AIA
Douglas Martin Associates
Drath, Clifford, Murphy, Wennerholm & Hagen
Du Charme Architecture
Durkin Development Company
Earthlite, Inc.
East County Sand, LLC
ECCDC
EDP Products, Inc
Emmerson Construction, Inc.
Encinitas Ford
Environmental Development
Envirotreast, Inc.
Fairfield Realty, LLC
Faith Community Church
Far West Industries
Fieldstone Communities, Inc.
Foothills Christian Church
Forecast Homes
Forensic Investigation
Fort Dix Weapons Test Center
Forum Capital Management, LLC
Freeman's Construction, Inc.
Frosch General Contracting
Fusco Engineering
G.D.G Incorporated
G.M. Brown Construction
Garden Communities
Gary Engineering, Inc.
Gatlin Development
GC Properties, Inc.
Geopacifica Geotechnical Consultants
Glenwood Development Company
GLUMAC International
Gold Coast Development
Goldberg Family Trust
Golden Door Owner LLC
Golder Associates, Inc.
Gonya Enterprises, Inc.
GPG Construction
Grace Community Church

GREAT PLANS in 3D
Greenberg Farrow Architecture
Greenstone Environmental
Greenstone Realty
Greg Industrial
Greystone Environmental Consultants, Inc.
Greystone Homes, Inc.
GTB Company
Gunner Milo Inc.
H&W Custom Builders
Habitat For Humanity
Hale Engineering
Hallmark Communities
Hamann Construction Company
HBA Architects
HDR Engineering, Inc.
Health Care Group
Helix Environmental
Hensel Phelps
Herrick Development
High Tech High
Hilltop Group, Inc.
Hoehn Motors Group
Holiday Inn Express
Home Capital Development Group
Hunters Run Apartments
Hyatt Corp.
Imperial Stations, Inc.
Imperial Unified School District
Innovative Resort Communities
Integral Communities
Integral Partners, LLC
International Design & Management
Irish Setters, Inc.
Irwin Architectural Group
IS Architecture
J. Whalen Associates, Inc.
J.P. Construction Company
Jack Henthorn & Associates
Jackson Drive Group
Jackson-Pendo Development
Jacobs Center for Neighborhood Innovation



Current and Past Clients

James Leary Architecture & Planning	Loranda Corp.
Jamison Builders General Contractors	Los Willows, LLC.
Janez Genesee, LLC.	Lucas & Mercier Development
JCC Homes	Lusardi Construction Company
JH Partners	M&H Property Management, LLC.
Jif-Pak	MAAC Project - Community Development Department
John DeWald & Associates, LLC	Magma Power Company
John Laing Homes	Manning Homes
JP Engineering, Inc.	Mansour Architectural Corp.
JPM Design Management	Manzanita Partners
JRMC Real Estate, Inc.	Marathon Construction Corp.
K. Hovnanian Homes	Marbella Country Club
KB Homes	Marine Corps Air Station Camp Pendleton
KEA Architecture and Development	Marine Corps Air Station Miramar
Keeton Kreitzer Consulting	Marker Development Company, Inc.
Kelly/JRM Palomar Airport Road 1, LLC	MATCOM, LLC
Ken D. Smith Architects	McCabe Harris Inc.
KMA Architecture & Engineering	McCullough-Ames Development, Inc.
Koll Development Group	McMillin Development
La Costa Engineering	MD Chula Vista, LLC
La Flor de Michoacan	Merkel & Associates, Inc.
La Jolla Citizens Foundation	Mestre Greve Associates
La Jolla Construction & Development Services, Inc.	Michael Crews Development
La Jolla Financial, Inc.	Midland Development
Laidlaw Waste Systems, Inc.	Monrovia Nursery Company
Lakeside Land Company, Inc.	Montessori Preschool - Carlsbad
Land Planning Consultants	Mooney & Associates
Land Planning Consultants	Morrow Development Inc.
Lanikai Management Company	MSA Enterprise
Latham & Watkins LLP	Murchison & Cumming
Latitude 33	Murphy's Market
Law Offices of David S. Bristol	Murrieta Valley Unified School District
Law Offices of Douglas Harty	MWI Plumbing
Law Offices of Gregory D. Hagen	Nasland Engineering
Law Offices of Wesley W. Peltzer	Naval Staff Civil Engineering SCE FLAG/ICQ On-Station Housing
Leming and Associates, Inc.	Naval Station San Clemente Island
Lennar Communities	Naval Surface Warfare Center Corona, Gage & Standards Laboratory
Liberty Storage	Neighborhood Healthcare
Lighthouse Builders, Inc.	New Covenant Tabernacle
Lighthouse Ventures, LLC	
Little Diversified Architectural Consulting	
LLS Engineering, Inc.	



Current and Past Clients

Newland Communities	Ramona Transmissions
Newport News Shipbuilding	RAN and Associates
North County Transit District	Rancho Glens Estates Homeowners Association
North River Investment, LLC	Rancho Verona
North Star Homes, LLC	Rancon Real Estate
NTDSTICHLER	RBF Consulting
O'Brien Communities	RCM Properties, LLC
Ogden Environmental and Energy Services, Inc.	RD Brown Company, Inc.
Old School House	RD Investment Properties
Olivenhain Municipal Water District	Real Estate Development Services
Online Builders	REC Consultants, Inc.
Ord & Rodgers Construction, Inc.	Redstone Capital
Otay Land Company	Reynolds Communities
P & D Consultants, Inc.	RG 112, LLC
Pacific Coast Conservation Alliance	RGC Courthomes, Inc.
Pacific Coast Development	Richardson Partners, Inc.
Pacific Gulf Properties	Rilington Communities
Pacific Oil Company	RMCI Development
Pacific Properties and Development, LLC	Robert A. McQuead Architect
Pallamary & Associates	Robert Thompson Architect
Pardee Construction Company	Robertson's Concrete
Park Crest, LLC	Robinson Electric
Paul Ecke Ranch	Rose, Munns & Chin
Paydar Properties	Rossi Architecutre
PBS&J	RREEF Management Company
Petco	SADI, LLC
Pettit Kohn Ingrassia & Lutz, PC	Salvatore Properties
PH Prime Construction	San Diego County Water Authority
Pinnacle Communities	San Diego Drums and Percussion
PLP, LLC	San Diego Gas & Electric Company
Prentiss Properties	San Diego Habitat for Humanity
Prevailing Wind Power	San Diego Housing Commission
Priest Development Corp.	San Diego Metropolitan Wastewater Dept.
Project Design Consultants	San Diego State University
Prometheus Laboratories	San Diego Transit Development Board
Prospect Point Development	San Diego Yacht & Breakfast Company
Prudential Real Estate Investors	San Elijo Hills, Inc.
Public Art and Architecture	San Luis Rey Enterprises
Pulte Homes	Santa Rita Investment Company
Pure Fitness	Self-Realization Fellowship Church
Quantum II, LLC	Senior Resource Group, LLC
Quinn Communities	Shadow Run Ranch, LLC



Current and Past Clients

Shallal Fuels, Inc.	Synergy Dance
Shea Homes	Szytel Engineering & Surveying, Inc.
Shook Building Systems, Inc.	T&B Planning Consultants, Inc.
Shoreline General Contractors, Inc.	Tabata Properties
Siemens-Duewag	Taylor Woodrow
Signature Capital Realty	Tech Business Center, LLC
Silver Creek Properties	The Blackstone Group
Silvergate Fallbrook Retirement Residences	The Chase Group
Simac Construction, Inc.	The Colony at California Oaks
Simon & Wong Engineering	The Corky McMillin Companies
Site Design Associates, Inc.	The Garrett Group, LLC
Skandia Real Estate Group	The Home Depot
Smith & Butler	The Josepho Group
Smith Consulting Architects	The Kennedy Group
Smith's Food and Drug Centers	The Kevane Company, Inc.
Snow Construction	The Lightfoot Planning Group
Solana Mesa Partners	The MacKenzie Group
South Bay Baptist Church	The Marina Group
South Beach Restaurant	The McClenny Corp.
South Coast Development	The Morgan Group, Inc.
Southern California Housing Development Corp.	The Prescott Companies
Southwest Affordable Housing	The Wardens & Vestrymen of All Saints Church
Spectrum Communities	The Related Companies of California
Spherion Legal Group	The Trane Company
Spieth & Wohlford, Inc.	The Welk Group, Inc.
Spring Creek Commercial Ventures, LLC	Thomas Enterprises, Inc.
Squier Properties	Tower on 5th, LLC
St. Gregory of Nyssa Greek Orthodox Church	Trane Company
Standard Pacific Homes	Trans West Housing, Inc.
Starwood Hospitality	Trimark Pacific Homes, L.P.
State of Arizona	Trinity Housing Group
State of California	TRS Consultants
Stephen Rosetta	U.C. Campus Planning
Stewardship Foundation	U.S. Air Force
Stone-Ray Development	U.S. Customs & Border Patrol
Stoneridge Centre Partners, LLP	U.S. Department of General Services
Studio 4 Architects	U.S. Department of Justice
Suds Sports Grill	U.S. Housing and Urban Development
Sully Miller Contracting Company	U.S. Marine Corps
Sunrise Development, Inc.	U.S. Navy
Sunset Corporate Center	United Dominion Realty Trust
Sweetwater Chevron	University of California, San Diego



Current and Past Clients

University of San Diego
Urban Habitat, Inc.
USA Properties Fund
Valley Center View Properties
Van Vechten Construction
Vandermost Consulting Services, Inc.
Vista Industrial Products, Inc.
Vista Irrigation District
Vista More Plaza, LLC
VSS, LLC
Wakeland Housing and Development Corp.
Wal Mart, Inc.
Warmington Residential - Southern California
Division
Warner Springs Estates HOA
Waters Edge Elsinore, LLC
West Air Mechanical
West Lilac Farms I & II, LLC
West Senior Living R/E, LLC
Westbridge Capital, LLC
Western National Realty Advisors
Western Pacific Housing
Western States Engineering & Construction, Inc.
Westmount Properties, LLC
Westward Homes/Westward Mortgage
Wheeler, Wimer, Blackman & Associates
Whitaker Investment Corp.
Wild Oats Markets, Inc.
William Lyon Homes, Inc.
Wilson Elser Moskowitz Edelman & Dicker, LLP
Wohlford Land Company, LLC
Worden, Williams, Richmond, Brechtel, & Gibbs
Worldwide Petroleum Company
WS Management
Wunderlin Engineering, Inc.
Zephyr Partners
Zijlstra Architecture



Past ISE Projects

ISE's personnel have prepared thousands of technical engineering assessments, and environmental compliance studies, for a wide variety of applications including transportation and infrastructure projects, defense-related systems, and commercial land development work.

A sampling of our past commercial projects is shown below. This list does not include certain projects contracted as attorney-client privileged work products, confidential client projects, or projects requiring a national security clearance.

4S Ranch Planning Area 38 Site Assessment, Architectural Acoustical, Sound Transmission Classification (STC/OITC) Assessments
4S Ranch Planning Area 40 Acoustical & Air Quality Conformity Assessments
6th Ave Apt Sound Transmission Classification (STC/OITC) / Impact Isolation Classification (IIC) Testing
8th Street Lotting Plan Air Quality Conformity Assessment / Environmental Permitting
22nd & Commercial Acoustical Assessment
24-Hour Fitness Acoustical Compliance Testing
32nd Street Rowhomes Acoustical Assessment
54th Street Apartments Acoustical Assessment
190th Street Development Acoustical & Photometric Assessments
222 Laurel Street Acoustical Assessment
526 Market Street Impact Isolation Classification (IIC) Testing
830 Harbor Cliff Way Acoustical Assessment
1551 Fourth Street Acoustical Compliance
2214 Del Mar Heights Acoustical Assessment
2730 & 2732 First Avenue San Diego Acoustical Site & CCR Title 24 Assessments
2822 5th Ave Sound Transmission Classification (STC/OITC) Assessment
Abram's Southview Tentative Map Acoustical & Air Quality Conformity Assessments
Academy of Our Lady of Peace Acoustical Site Assessment
Action Marketing Acoustical Assessment
Adobe Estates Vista Environmental Impact Report (EIR)
Aero Drive LLC Environmental Permitting
Agua Dulce Terrace Architectural Acoustical Assessment
Aleto Tentative Parcel Map Subdivision Acoustical Assessment
Allstate Moving Facility Acoustical Assessment
Alta Mira Due Diligence Assessments
Altair (Padre Dam) Residential Acoustical Assessment
Anchor Cove Sound Transmission Classification (STC/OITC) Testing
Andora at the Summit Architectural Acoustical Assessment



Past ISE Projects

Andre Condominiums Acoustical Assessment
Antelope Hills Elementary School Tentative Map Acoustical & Air Quality Conformity Assessments
Anza 44 Acoustical & Air Quality Conformity Assessments
Apostolic Assembly Church Acoustical Assessment
Aqua Clean Car Washes Acoustical Site Assessment
Arbor Ranch (Poinsettia Property) Residential Assessment / Architectural Acoustical Assessment
Arbor Terrace Residential Development Acoustical & Air Quality Conformity Assessments
Arizona State Mine Inspection Manual Update
Arizona State Mine Inspector (ASMI) Education & Training Procedures Manual
Arizona State Mine Inspector (ASMI) Surface Mine Rescue Module Development
Arroyos Del Mar MMRP Biological Habitat Noise Monitoring
Aten Ranch Tentative Map Acoustical Site Assessment
Aubrey Glen Residential Development Due Diligence Studies
Aura Townhomes Aircraft Acoustical Compliance Study
Autowerks Relocation Due Diligence Study
Avalon Bay Fashion Walk Acoustical & Air Quality Conformity Assessments
Avocado Highlands Oceanside Environmental Initial Study (IS)
Aztec Court Apartments Acoustical Assessments
B&B Heavy Equipment Acoustical Assessment
Ball Park Skylofts Acoustical Assessment / Sound Transmission Classification (STC/OITC) Testing
Banche Property Acoustical Assessment
Barcelona Apartments Acoustical Assessment
Barona Casino Acoustical Assessment
Barona Casino Acoustical Compliance Monitoring
Barona Motocross Track Acoustical Assessment / On Call Acoustical Engineering
Batiquitos Bluffs Acoustical & Air Quality Conformity Assessments
BCS Federal Aviation Administration FAR Part 150 Study
Beacon Point Sound Transmission Classification (STC/OITC) Testing
Bear Valley Parkway Subdivision Acoustical, Vibration & Air Quality/GHG Conformity Assessments
Bella Lago Subdivision Acoustical & Air Quality Conformity Assessments
Bella Terra Acoustical Assessment
Benson Self-Storage Acoustical Assessment
Bent Avenue Commercial Center Environmental Assessments
Berkov Forensic Electrical Study
Bermuda View Acoustical Assessment
Bernstein Forensic Electrical Study
Beyer Residential Courts Acoustical Assessment



Past ISE Projects

Beyer Residential Courts Architectural Acoustical Assessment
Black Mountain Ranch Residential Acoustical Assessment
Black Rail Residential Acoustical & Air Quality Conformity Assessments
Blythe Recycling Center Acoustical Site Assessment
Blythe Senior Housing Development Acoustical & Air Quality Conformity Assessments
Boekel Tentative Parcel Map 20531 Environmental Assessments
Bogue Property Acoustical Assessment
Bonita Courts Architectural Acoustical Assessment
Bonita Courts Detached Condominiums Due Diligence Environmental Assessments
Bonita Six Unit Rowhomes Acoustical & Air Quality Conformity Assessments
Bonita Valley Community Church Acoustical Site Assessment
Bonsall Town Center Acoustical & Air Quality Conformity Assessments
Brant Street Rowhomes Acoustical Site Assessment
Bratton Acoustical Assessment
Bravo Rodiles Subdivision Acoustical Assessment
Brawley Elementary School Site Air Quality Conformity Assessment Screening
Brawley Low Income Housing Acoustical Assessment
Brayton Way Acoustical Assessment
Breeze Hill Commercial Site Vista Acoustical Site Assessment
Breeze Hill Rock Crushing Acoustical Compliance
Bridgepointe Phase 4 San Diego Acoustical Assessment
Bridgeport Impact Isolation Classification (IIC) / Sound Transmission Classification (STC/OITC)
Briercrest Park Acoustical Assessment / Architectural Acoustical Assessment
Briggs Road Extension Environmental Assessments
Brine Pipeline Acoustical Alignment Study
Broadway Boulevard Extension Air Quality Conformity Assessment
Broadway Manor Acoustical Site Assessment
Bruno's Chevron (Vista) Acoustical & Air Quality Conformity Assessments
Buena Vista Nine Residential Development Acoustical Site Assessment
Buena Vista Park Acoustical & Air Quality Conformity Assessments
Buie Mt Miguel Phase E-2 Acoustical Assessment
Buss Residential Pipeline Assessment
Butterfield Trails Ranch Acoustical & Visual Assessments
C&H Machine Compressor Noise & Vibration Survey
C&M Door Initial Assessment / IS / MND
CA High Speed Rail Historic Structural Acoustical & Ground Vibration Site Assessments (Fresno to Bakersfield Segment)



Past ISE Projects

Cablay Architectural Acoustical Assessment
Cabrillo Development Architectural Acoustical Assessment / Sound Transmission Classification (STC/OITC) / Impact Isolation Classification (IIC) Assessments
Cal-Americas Vista Acoustical Assessment
Calavera Hills Village 'K' Architectural Acoustical Assessment
Calavera Village X (Ravinia) Architectural Acoustical Assessment
Calexico Town Center Acoustical & Air Quality Conformity Assessments
California Oaks Acoustical & Air Quality/GHG Assessments
Calvary Chapel Acoustical & Air Quality Conformity Assessments
Camelot Residential Development Acoustical Assessment
Cameron Property SR-52 Caltrans Condemnation Acoustical Study
Camp Diggity Dog Acoustical Assessment
Campbell Property Encinitas Acoustical Assessment
Candlelight Phase I Acoustical & Air Quality Conformity Assessments
Candlelight Phase II Acoustical & Air Quality Conformity Assessments
Cantarini Ranch Air Quality Conformity Assessment
Canyon Crest Estates Construction Air Quality Conformity Assessment
Canyon Plaza Commercial Center Acoustical Assessment
Canyon Trails Acoustical & Air Quality Conformity Assessments
Capria Architectural Acoustical Assessment
Cardiff Heights at Edinburg Acoustical Assessment
Carlsbad Office Campus Architectural Acoustical Assessment
Carlsbad Pacifica Architectural Acoustical Assessment
Carlsbad Promenade (Koll) Acoustical Site Assessment
Carmel Mountain Ranch Golf Course Reuse Acoustical Assessment
Carmel Valley Apartments Acoustical Monitoring
Carmel Valley Homeowners Association Impact Isolation Classification (IIC) Testing
Carmel Valley Trunk Sewer Acoustical Assessment
Carriage Hill Acoustical Assessment
Carter Collision Center Acoustical Assessment
Casa De Amparo Construction Air Quality Conformity Assessment
Casitas at Spring Creek Acoustical Assessment
Castle Arch Specific Plan Air Quality Conformity Assessment
Cathedral City Specific Plan Amendment Acoustical & Air Quality/GHG Conformity Assessments
CCT Acoustical Complaint Investigation / Expert Witness
Cedar & Kettner Redevelopment Greenhouse Gas (GHG) Study
Cedar Gateway Development Acoustical & Air Quality/GHG Conformity Assessments



Past ISE Projects

Central Imperial Redevelopment Greenhouse Gas (GHG) Study
CESN ELDER Sound Transmission Classification (STC/OITC) / Impact Isolation Classification (IIC) Testing
CESN IRIS Sound Transmission Classification (STC/OITC) / Impact Isolation Classification (IIC) Testing
CESN Playa Blanca Conversion Sound Transmission Classification (STC/OITC) / Impact Isolation Classification (IIC) Testing
CESN Stonemark on Avocado Conversion Sound Transmission Classification (STC/OITC) / Impact Isolation Classification (IIC) Testing
CESN Stonemark on Golden Hill Sound Transmission Classification (STC/OITC) / Impact Isolation Classification (IIC) Testing
CESN Villa Grigio Conversion Sound Transmission Classification (STC/OITC) / Impact Isolation Classification (IIC) Testing
Chalice Unitarian Universalist Congregation Acoustical Site Assessment
Champagne Lakes RV Park Acoustical & Air Quality Conformity Assessments
Champions Center Architectural Acoustical Assessment
Champions Center Sound Transmission Classification (STC/OITC) Assessment
Chapala & Paseo Del Sol Forensic Site Assessment
Chelsea Verbena CCR Title 24 Acoustical Assessment
Chesapeake Bay Residential Architectural Acoustical Assessment
Children's Lighthouse Acoustical & Air Quality/GHG Conformity Assessments
Children's Village Environmental Assessments
Chino Hills Acoustical & Air Quality Conformity Assessment
Chuck Bryant Environmental Variance Assessment
Chuey's Acoustical Abatement Architectural Acoustical Assessment
City Heights Service Plaza Acoustical and Air Quality Conformity Assessments
City of San Marcos General Plan CO Hotspot Analysis
Clairemont High School Expansion Acoustical Assessment
Clarion Hotel Architectural Acoustical Study / Acoustical Assessment / Lighting and Glare Assessment
Clay Residence Acoustical Survey
Cleveland Street Residential Condominium Development Acoustical Site Assessment
ClubLife Senior Living Center Acoustical Assessment
Coleman College Redevelopment Acoustical & Air Quality Conformity Assessments
Community Road Development Acoustical & Air Quality Conformity Assessments
Comunale Washington Street Development Acoustical & Air Quality Conformity Assessments
Coomber OSHA Compliance & Dosimetry Testing
Copley Drive Home Depot Electrical Survey
Cornerstone Communities Architectural Acoustical Assessments



Past ISE Projects

Cornerstone Lofts Forensic Assessment
Corona Tentative Map 37024 Acoustical & Air Quality/GHG Conformity Assessments
Coronado Park 3 Residences Architectural & Site Compliance Acoustical Assessments
Coronado Terrace Acoustical and Structural Vibration Assessment
Country Glen Apartments Acoustical Assessment
Country Glen Condominiums Architectural Acoustical Assessment
County of San Diego Operations Center Acoustical & Air Quality Conformity Assessments
Covert Canyon Acoustical Study
Covo Automotive Acoustical Assessment
CryoCon PCB Development
Dai Dang Meditation Facility Acoustical Assessment
Dalton Mixed Use Building Acoustical Assessment
Davis Residence Impact Isolation Classification (IIC) Assessment
De Anza II Apartments Acoustical Assessment / NNIC Testing
De La Plaza Compliance Survey
Dehesa Road Residential Lot Split Acoustical Assessment
Del Cerro Chevron Acoustical Assessment
Del Dios Estates Acoustical Assessment
Del Mar Corporate Center Review
Del Mar Pacific Condominium Conversion
Del Monte Condo Architectural Acoustical Assessment
Desert Springs Oasis Acoustical & Air Quality/GHG Conformity Assessments
Dhammakaya International Meditation Center Acoustical & Air Quality/GHG Conformity Assessments
Diamond Environmental Acoustical & Air Quality Conformity Assessments
Dimaio Subdivision Acoustical Site Assessment
Doheny Beverly Hills Acoustical Assessment
Don Green Site Assessment
Dos Lagos PA 11 Acoustical Assessment / Architectural Acoustical Assessment
Dos Lagos PA 12 Acoustical & Air Quality Conformity Assessments
Douglas Drive Apartments Acoustical Site Assessment
Douglas Drive Condominiums Acoustical & Air Quality Conformity Assessments
Dowsing Industrial Building Vista Acoustical & Air Quality Conformity Assessments
Doyle Property Acoustical Assessment
Durkin Family Trust Office Building Acoustical Assessment
Durler Residence Architectural Acoustical & Site Permitting Assessments
DWCF Phase I Constraint Assessment
Eagle Rock 45 Mixed Use Acoustical Site & CCR Title 24 Assessments



Past ISE Projects

Eagleburgmann EJS Building Acoustical Assessment
Earl Thomas Reservoir Acoustical & Air Quality Conformity Assessment
East County Sand Mine Acoustical, Vibration & Air Quality/GHG Conformity Assessments
East Sycamore Commercial Acoustical & Air Quality Conformity Assessments
Eastlake (The Woods) Residential Acoustical Assessment
Eastridge Acoustical Monitoring
ECCDC East Valley Parkway Acoustical Assessment
ECCDC Escondido Child Care Acoustical Site Study
Echter Residence Sound Wall Verification Assessment
Eden Hills Residential Acoustical & Air Quality Conformity Assessments
Edgemoor Hospital Demolition Greenhouse Gas (GHG) Assessment
Edison Power South El Monte Wire Pull Acoustical Constraints Assessment
El Cajon District Center Acoustical Assessment
El Centro Affordable Housing Development Acoustical Site Assessment
El Centro Mall Acoustical & Air Quality Conformity Assessment Reports
El Centro Northgate Plaza Acoustical & Air Quality Conformity Assessments
El Centro Town Center CO Hotspot Analysis
El Centro Waste Water Treatment Plant Air Quality Conformity Assessment & Compliance Monitoring
El Corazon Recycling Greenwaste Odor Monitoring & Testing
El Corazon Specific Plan Acoustical & Air Quality/GHG Conformity Assessments
El Paso Town Homes Acoustical Assessment
El Portal Subdivision Acoustical & Air Quality Conformity Assessments
Emerald Apartments Acoustical Assessment
Emerald Desert Acoustical & Vibration Rail Impact Assessments
Emerald Hill Development Environmental Assessments
Emerald Point Acoustical Site Assessment / Architectural Acoustics
Emerald Property Acoustical & Air Quality Conformity Assessments
Emerald Ridge Condominiums Acoustical Assessment
Encanto Urban Village Acoustical & Air Quality Conformity Assessments
Encinitas 38 Lot Subdivision Architectural Acoustical Assessment / Acoustical Site Assessment
Encinitas Ford Storage Lot Development Plan
Encinitas Ranch Pump Station Acoustical Study
Encinitas Specific Plans 1 & 2 Gap Analyses
Envirepel Biomass Project Acoustical Assessment
Escondido Community Clinic Generator Compliance Study
Escondido Dental Office Emergency Generator Study
Escondido Research & Technology Center Acoustical Monitoring



Past ISE Projects

Escondido Tract 817 Acoustical Site Assessment
Escondido Tract 829-830 Acoustical Site Assessment
Escondido Tract Map 808 Acoustical Site Assessment
Escondido YMCA Soccer Field Acoustical & Photometric Assessments
Estrada Duplex Architectural Acoustical Assessment
Estrella Subdivision Acoustical & Air Quality Conformity Assessments
Euclid and National Master Plans Constraints Analysis
Eureka Ranch Residential Acoustical Assessment
Eureka Springs Architectural Acoustical Assessment
Fairfield Inn & Suites Temecula Acoustical & Air Quality Conformity Assessments
Fairway Business Park Acoustical & Air Quality Conformity Assessments
Faith Bible Fellowship Environmental Site Assessment
Faith Community Church Acoustical & Air Quality/GHG Conformity Assessments
Fanita Parkway Focused Acoustical Alignment Study
Fanita Residential Development Air Quality Conformity Assessment
Fashion Walk Architectural Acoustical Assessment / Sound Transmission Classification (STC/OITC) / Impact Isolation Classification (IIC) Testing
Firenze Architectural Acoustical Assessment
First and Robinson Acoustical Site Assessment / Architectural Acoustical Assessment
Flinn Springs Tentative Map 5470 Acoustical & Air Quality Conformity Assessments
Foothills Christian Church Playground Ambient Air Quality Conformity Assessment / Testing
Forester Square CCR Title 24 Assessment
Fountains at Carlsbad (Levatino) Acoustical Site Assessment
Fountains at Seacliff Architectural Acoustical Assessment
Fourth & C Commercial Plaza Acoustical Assessment
Frulla Property Acoustical Site Assessment
Fuerte Ranch Acoustical Assessment
Fund For Animals Generator Compliance Study
Galena Reno Nevada OPC Facility Acoustical Assessment
Gamboni Ranch Acoustical Assessment
Garden View Environmental Compliance
Genesee Executive Plaza Expansion Project Greenhouse Gas (GHG) Analysis
Glendale City Lights Acoustical Assessment
Glenrose Ranch Air Quality Conformity Assessment
Goddard School Acoustical Assessment
Golden Door Acoustical & Air Quality Conformity Assessments
Goodman Bosworth Subdivision Acoustical & Air Quality Conformity Assessments



Past ISE Projects

Grace Community Church Modification Acoustical Assessment
Grandview Tentative Map Acoustical & Air Quality Conformity Assessments
Grantville Redevelopment Acoustical & Air Quality/GHG Conformity Assessments
Green Oaks Villas Acoustical & Air Quality Conformity Assessments
Gregory Canyon Landfill Rock Crushing Assessment
Grizzle Tentative Parcel Map Acoustical Site Assessment
Grushansky Residential Electrical Forensic Investigation
GSA Dog Kennel Acoustical Site Assessment
Guajome Park Academy Acoustical & Air Quality Conformity Assessment
Gunner Milo Pet Care Acoustical Compliance
Gustafson Tentative Map 5457 Acoustical & Air Quality/GHG Conformity Assessments
Habitat for Humanity Lincoln & Ash Architectural Acoustical Assessment
Hagerty Tentative Parcel Map Acoustical Assessment
Hamony Grove Ranch Architectural Acoustical Assessment
Handler Otay Mesa Acoustical Assessment
Harmony Grove Industrial Center Acoustical Permitting Survey
Harmony Grove Residential Acoustical & Air Quality Conformity Assessments
HARRF RT60 Design Engineering
Hart 14 Unit HVAC Assessment
Hartford Village Acoustical Assessment
Hawthorn and India Street Acoustical Compliance Assessment
Hawthorn Place Architectural Acoustical Assessment
Henry's Market El Cajon Compliance Assessment
Henry's Market Escondido Acoustical Assessment
Heritage at Evening Creek Acoustical Assessment
Heritage Villas Architectural Acoustical Assessment / Sound Transmission Classification (STC/OITC) / Impact Isolation Classification (IIC) Compliance Testing
Herold Tentative Parcel Map 20514 Acoustical Site Assessment
Herold Tentative Parcel Map 20522 Acoustical Site Assessment
Hi Hope Ranch Habitat Monitoring MMRP Program
Hibiscus Tentative Parcel Map Acoustical Assessment
High Tech High Chula Vista Acoustical / LEED Site Performance Assessments
High Tech High North County Acoustical / LEED Site Performance Assessments
Highlands Ranch Tentative Map Acoustical & Air Quality/GHG Conformity Assessments
Hillcrest Red Cross Acoustical Site Assessment
Hilltop Group Acoustical & Air Quality Conformity Assessments
Hoag Tentative Map Environmental Permitting



Past ISE Projects

Hoehn Auto Plaza Acoustical, Photometric & Air Quality Conformity Assessments
Hofmann Architectural Acoustical Assessment
Holderby Residence Acoustical Easement
Holiday Inn Express Sound Transmission Classification (STC/OITC) Testing
Hollandia Dairy Acoustical Assessment
Holly Springs Air Quality Conformity Assessment
Home Depot El Cajon Acoustical, Ground Vibration & Air Quality Conformity Assessments
Home Depot El Cajon Construction Blasting Assessment
Home Depot Vista Acoustical Site Assessment
Homesley Generator Analysis
Honey Springs Development Acoustical & Air Quality Conformity Assessments
Honeyhill Ranch Acoustical Assessment
Hoover High School Football Field Expansion Acoustical Assessment
Hotel Circle Bikeway Acoustical Assessment
Hyatt Place Vista Acoustical & Air Quality Conformity Assessments
Ildica 4 Plex Architectural Acoustical Assessment
Imperial Center Air Quality Conformity Assessment
Imperial Solar Energy Center (South) Acoustical & Air Quality/GHG Conformity Assessments
Imperial Solar Energy Center (West) Acoustical & Air Quality/GHG Conformity Assessments
Imperial Stations Acoustical Assessment
Interior Design Specialists Acoustical Compliance
Interstate Business Park Acoustical Assessment
Ivy House Residential Acoustical Assessment
Iwannah Park Acoustical Assessment
JA Mesa Market SEP Acoustical Assessment
Jackson Drive Apartments Acoustical Site Assessment
Jamacha Road Widening Acoustical, Vibration & Air Quality/GHG Conformity Assessments
Janc Duplex Architectural Acoustical Assessment
Jauregui Tentative Map Greenhouse Gas (GHG) Assessment
Jeffries Ranch Acoustical & Air Quality Conformity Assessments
Jif Pak Environmental Site Assessment
Jolly Tentative Parcel Map 20502 Environmental Studies
Jonas Salk Elementary School Acoustical & Air Quality/GHG Conformity Assessments
Josepho Industrial Site Assessment
Juniper Gardens Community Center Acoustical Compliance Assessment
Kaiser Hospital San Diego Acoustical & Structural Vibration Assessment
Kaiser HVAC Compliance Survey



Past ISE Projects

Kasai-Mondeck Tentative Map Acoustical and Vibration Study
Kasitz Property Acoustical Study
Kawasaki Motorsports Forensic Electrical Inspection
KCBQ Standby Generator Assessment
Kean Tentative Map Encinitas
Kelly Architectural Acoustical Assessment
Kelly Ranch Village A Acoustical & Air Quality Conformity Assessments
Kennedy Architectural Acoustical Assessment
Kensington Terrace Architectural & Site Compliance Acoustical Assessments
Kenwood Gas Station Acoustical & Air Quality Conformity Assessments
Kevane Tentative Parcel Map Carlsbad Acoustical Site & CCR Title 24 Assessments
Kim Tentative Parcel Map Acoustical Assessment
Kinder Morgan Air Quality Conformity Assessment / Due Diligence
Koll Lot 7 Acoustical Site Assessment
KPMG Architectural Acoustical Survey
Kremer Residence Generator Compliance Study
La Costa 3.2 Childcare Facility Acoustical Assessment
La Costa Multi-Family Architectural Acoustical Assessment
La Costa Multifamily Housing Architectural Acoustical Assessment
La Costa Oaks Architectural Acoustical Assessment
La Costa Town Square HVAC Noise Compliance Assessment
La Flor de Michoacan Acoustical Assessment
La Jolla Citizens Foundation Visual Assessment / Community Outreach
La Jolla Village Towers Mechanical Vibration Mitigation
La Mesa Meadows Acoustical Assessment
La Mesa Townhomes Acoustical Site Assessment
La Novia Ave Bridge Acoustical, Vibration & Air Quality Monitoring
La Novia Bridge Expansion Acoustical & Air Quality Conformity Assessments
La Vida Real Architectural Acoustical Assessment
Ladjevardi Residence Acoustical Mitigation
Lago de San Marcos Acoustical Assessment
Laguna Breeze Condominiums Acoustical Site & CCR Title 24 Assessments
Lake Elsinore SPA 6 Air Quality Conformity Assessment
Lake Hodges Haul Truck Route Acoustical Assessment
Lake Jennings Condominiums Acoustical, Vibration & Air Quality Conformity Assessments
Lake Jennings Lot 1 Major Use Permit (MUP) Acoustical Assessment
Lake Jennings Market Place Acoustical, Vibration & Air Quality/GHG Conformity Assessments



Past ISE Projects

Lake Rancho Viejo Acoustical & Air Quality Conformity Assessments / MMRP Monitoring Program
Lakeside Downs Acoustical & Air Quality Conformity Assessments
Lamar Square Sound Transmission Classification (STC/OITC) Compliance
Lampert Residential Architectural Acoustical Assessment
Lantern Crest Residential Acoustical Site Assessment
Las Mansiones de Bonita Acoustical Site Assessment
Las Vegas Home Depot #3305 Standby Generator Permitting Assessment
Las Ventanas Subdivision Acoustical & Air Quality Conformity Assessments
Laurel Street Acoustical Assessment
Lazy A Ranch Acoustical & Air Quality Conformity Assessments
Lemon Grove Car Wash Acoustical Site Assessment
Lennar Chino Albers Property Acoustical & Architectural Acoustical Assessment
Lennar Chino Verhoven Acoustical Site & CCR Title 24 Assessments
Lennar Valencia Mosaic Forensic Assessment
Lennar Yates Property Acoustical Site & CCR Title 24 Assessments
Levanto (Boulevard) Residential Acoustical Assessment
Liberty Station Site & Architectural Acoustical Assessments
Liberty Village Air Quality Conformity Assessments
Lillian Place Residential Acoustical Assessment / Architectural Acoustical Assessment
Lincoln and Ash Acoustical & Air Quality Conformity Assessments
Lincoln High School Acoustical & Air Quality Conformity Assessments
Linda Vista Child Center Expert Witness
Linda Vista Realignment Acoustical Assessment
Linda Vista Widening Acoustical & Air Quality Conformity Assessments
Lion's Leadership Academy Acoustical Assessment
Lonestar Project in Otay Acoustical & Air Quality Conformity Assessments
Loranda Residential Development Acoustical Assessment
Los Angeles Metro BlueLine & Goldline Passenger Rail Vibration Monitoring Project
Los Castillos Residential Architectural Acoustical Assessment
Los Coches Brightwater Ranch Acoustical & Air Quality/GHG Conformity Assessments
Los Lagos Subdivision Acoustical & Air Quality Conformity Assessments
Los Willows Onsite Acoustical Compliance Study
Lower Santa Ana River (LSAR) Sand Management MMRP Biological Noise Monitoring Project
Lowes Oceanside HVAC Noise Compliance Assessment
Lowes Vista Acoustical & Air Quality Conformity Assessment
Luckey Ranch BP Facility Air Quality Conformity Acoustical & Air Quality Conformity Assessments
Luckey Ranch Fiscal Impact Analysis



Past ISE Projects

Lyon Avelina Anaheim Acoustical & Rail Vibration Assessments
Lyon Homes Glendora Rail Acoustical & Vibration Site Assessments
MacKinnon Residential Acoustical Assessment
Madeira II 9C, 2C Acoustical Assessment
Magellan Gateway Acoustical & Vibration Assessments
Manning Homes Carlsbad Acoustical Assessment
Mar Brisa Architectural & Site Compliance Acoustical Assessments
Maravu Tentative Map & Architectural Acoustical Assessment
Marbella Country Club Acoustical Compliance Assessment
Marbella Villa Apartments Acoustical Assessment
Mariano Architectural Acoustical Assessment
Mariano Residential Development Plan
Mary's House Acoustical Assessment
Maryland Drive Condominiums Architectural Acoustical Assessment
Maryland Drive Elementary School Acoustical & Air Quality/GHG Assessments
Maryland Road Acoustical & Air Quality Conformity Assessments
Mater Dei Church and School Acoustical Site Assessment / LEED Acoustical Compliance Analyses
MCAS El Toro Base Realignment and Closure Acoustical EIS Reporting
McCabe Ranch Tentative Parcel Map Acoustical Assessment
McCulloch Ames Acoustical Assessment
McGuire Impact Isolation Classification (IIC) Testing
McMillin Calavera Hills Architectural Acoustical Assessment
McMillin Liberty Station Expert Witness
Mead Elementary Acoustical & Air Quality Conformity Assessments
Meadow Lake Golf Course Acoustical Assessment
Meadow Run Acoustical Site Assessment
Meadowbrook Village Air Quality Conformity Assessment
Melrose Square Retail Center Acoustical & Air Quality Conformity Assessments
Melrose Station Loading Dock Acoustical Assessment
Melrose Vista 7-11 Site Permitting
Meridian at Eastlake Architectural Acoustical Assessment
Meridian Place Acoustical Assessment
Merriam Mountain Acoustical & Air Quality Conformity Assessment Expert Review
Merriam Tentative Parcel Map Acoustical & Air Quality Conformity Assessments
Mesa Commons Acoustical & Air Quality/GHG Conformity Assessments
Mesa Grande Acoustical Study
Mesa Ridge Residential Acoustical Assessment



Past ISE Projects

Mesquite Landfill Acoustical, Vibration & Air Quality Conformity Assessments
Mill Creek Wetland Acoustical & Air Quality/GHG Conformity Assessments
Millcreek at Stonebridge Architectural Acoustical Assessment
Millennial Tech Middle School Air Quality Conformity Assessment
Miller Road Plaza Operational Acoustical Assessment
Milljour Residential Acoustical Investigation
Mills of Cortez Hills Sound Transmission Classification (STC/OITC) / Impact Isolation Classification (IIC) Testing
Mission Ave Mixed Acoustical Assessment
Mission Trails Business Park Site Development Plan
Mission Valley Library Architectural Acoustical Assessment
Mission Viejo Recreational Center Acoustical & Air Quality Conformity Assessment
Mission Wells Architectural Acoustical Assessment
Monrovia Nursery Azusa Acoustical, Vibration & Air Quality Conformity Assessments
Monrovia Nursery Glendora Reuse Acoustical, Vibration & Air Quality Conformity Assessments
Monte Vista Helicopter Acoustical Assessment
Monte Vista Specific Plan Amendment Acoustical & Air Quality Conformity Assessments
Monterrey Park Acoustical & Air Quality/GHG Conformity Assessments
Montessori Arts Architectural Acoustical Assessment
Montiel Heights Acoustical Site & Air Quality Conformity Assessment
Morgan Valley Tract 29473-2 Architectural Acoustical Assessment
Morgan Valley Tracts 29473-1 and 2 Acoustical & Air Quality Conformity Assessments
Morgan's Corner Architectural Acoustical Assessment
Morning Star Plantation El Centro Acoustical Assessment
Moronogo Entertainment Center Air Quality Conformity Assessment
Mosaic Property Acoustical & Air Quality/GHG Conformity Assessments
Mottino Center Acoustical Survey
Mt. Gate Acoustical & Air Quality Conformity Construction Assessments
Mt. Signal Solar Power Plant Acoustical & Air Quality Conformity Assessments
Murrieta High School #3 Acoustical & Air Quality Conformity Assessments
Murrieta Middle School #4 Acoustical & Air Quality Conformity Assessments
Murrieta Shopping Center Acoustical & Air Quality Conformity Assessments
MUT Development Acoustical Assessment
MWI Brawley Plumbing Expansion Acoustical & Air Quality/GHG Conformity Assessments
Myrtle Apartments Acoustical Assessment
National City Commercial Center Environmental Assessment
National City Downtown Specific Plan Acoustical & Air Quality/GHG Conformity Assessments



Past ISE Projects

National University Architectural Acoustical Assessment
Nautical Bean Coffee Code Compliance
Naval Amphibious Base Housing Acoustical Assessment
Naval Surface Warfare Center Corona NAVAIR Vibration Survey
Naval Surface Warfare Center Seal Beach Surveillance & Testing Lab NAVAIR Vibration Survey
NCC Construction Vibration Assessment
NCC MMRP Ground Vibration Monitoring
Nestor Town Center Acoustical & Air Quality Conformity Assessments
New Tabernacle Church Bonita Acoustical & Air Quality Conformity Assessments
Nickelodeon Hotel Air Quality Conformity Assessment
Norte Villas Acoustical Assessment
North Coast Church Acoustical & Air Quality Conformity Assessments
North Coast Storage Architectural Acoustical Assessment
North County Square Firestone Tire Center Expansion Acoustical Assessment
North County Transit District (NCTD) Acoustical & Vibration Consultation
North County Transit District (NCTD) Sprinter Acoustical & Vibration Technical Assessments
North County Transit District (NCTD) Sprinter Rail Mitigation Assessment
North Melrose Auto Acoustical Assessment
North Pointe Tech Center Acoustical Assessment
North River Investments Acoustical Assessment
Northrop-Grumman Acoustical Assessment
Northstar at Skyranch Acoustical Monitoring
Northwest Village Creek Greenhouse Gas (GHG) Assessment
O'Brien Condo Acoustical Site Assessment
Oak Avenue CCR Title 24 Assessment
Oak Country Estates Acoustical Assessment
Oak Park CCR Title 24 Acoustical Assessment
Ocean Pointe Condominiums Acoustical & Air Quality Conformity Assessments
Ocean Street Residences Acoustical & Vibration Assessments
Oceanside 140 Airflow & Daylight Analyses
Oceanside Bluffs Residential Acoustical & Air Quality Conformity Assessments
Oceanside Circulation Element Update Acoustical & Air Quality/GHG Conformity Assessments
Oceanside Equestrian Property Acoustical Assessment
Oceanside High School Acoustical & Air Quality Conformity Assessments
Oceanside Pavilion Acoustical & Air Quality Conformity Assessments
Oceanside VA Clinic Acoustical Analysis
Oceanside VA Hospital Generator Assessment



Past ISE Projects

Old Castle Road Development Acoustical & Air Quality Conformity Assessments
Old Del Dios Residential Acoustical & Air Quality Conformity Assessments
Old Grove Apartments Acoustical Assessment / Architectural Acoustical Assessment
Old San Marcos Schoolhouse Acoustical Permitting Assessment
Old Stage Apartments Acoustical Assessment
Olive Industrial Bus Maintenance Facility Acoustical & Air Quality Conformity Assessments
Olivenhain Municipal Water District 4S Ranch Acoustical Site Assessment
Olivenhain Municipal Water District Construction Inspection Compliance
Olivenhain Municipal Water District Dam Construction MMRP Compliance
Olivenhain Municipal Water District Elfin Forest Loop Project
Olivenhain Municipal Water District Generator Set Field Testing
Olivenhain Municipal Water District Lease Property Compliance Survey
Olivenhain Municipal Water District Parcel Land Utilization Analysis
Olivenhain Municipal Water District Rancho Cielo Pump Station Odor Investigation
Olivenhain Municipal Water District Water Treatment Plant Blower Acoustical & Vibration Mitigation Design
Olivenhain Road Expansion Acoustical Alignment Assessment
Olsen Multi-Family Development Acoustical Assessment / Impact Isolation Classification (IIC) Testing
Olson Property Acoustical & Vibration Assessments
Orange Place Apartments Architectural Acoustical & Site Assessments
Orchard Run Residential Development Environmental Assessment
Orchard Run Wastewater Treatment Plant Acoustical Assessment
ORCO Block Site Compliance Survey
Oro Verde 10 Lot Subdivision Acoustical & Air Quality/GHG Conformity Assessments
Otay 2nd Pipeline Acoustical & Air Quality Conformity Assessments
Otay 11 R-24 and 25 Acoustical & Air Quality Conformity Assessments
Otay 50 Acoustical & Air Quality Conformity Assessments
Otay Lakes Car Wash Acoustical Site Assessment / Permitting Assistance
Otay Lakes Condominiums Acoustical Site Monitoring
Otay Land Company Village 8 Acoustical & Air Quality/GHG Conformity Assessments
Otay Landfill CDI Facility Acoustical & Air Quality Conformity Assessments
Otay Landfill Use Permit Acoustical & Air Quality Conformity Assessments
Otay Mesa Pump Station Architectural Acoustical Assessment / IS
Otay Village 7, R-6 & 7 Acoustical Assessments
Pacific Heights Condominiums Acoustical & CCR Title 24 Assessments
Pacific Station Acoustical Compliance
Pacifica Office Suites Sound Transmission Classification (STC/OITC)



Past ISE Projects

Pala Mesa Highlands Air Quality Conformity Assessment
Pala Mesa Resort Acoustical & Air Quality Conformity Assessments
Palazzo Residential Development Acoustical & Air Quality/GHG Conformity Assessments
Palmilla Subdivision Acoustical & Air Quality Conformity Assessments
Paloma Del Sol Acoustical & Air Quality/GHG Conformity Assessments
Palomar College NEC Acoustical & Air Quality Conformity Assessments
Palomar Pointe Architectural Acoustical Assessment
Park Crest LLC Architectural Acoustical Assessment
Park View Condominiums Acoustical Assessment
Parkside Apartments Air Quality Conformity Assessment
Parkside Project Acoustical Compliance Study
Parkwest Specific Plan Amendment Air Quality Conformity Assessment
Pauma Estates Acoustical Assessment
Pauma Valley Estates Acoustical & Air Quality/GHG Conformity Assessments
Pauma Valley Packing Company Acoustical & Air Quality Conformity Assessments
Peaceful Valley Fire Station Acoustical Site Assessment
Peaceful Valley Ranch Acoustical & Air Quality Conformity Assessments
PEMA Project Site Compliance Survey / Acoustical & Air Quality Conformity Assessments
Penasquitos Gardens Acoustical Assessment
Pennsylvania Childcare Center Acoustical Assessment
Penrose Impact Isolation Classification (IIC) / Sound Transmission Classification (STC/OITC)
Perlman Architectural Acoustical Assessment
Perris-Rider Center Acoustical Study
PETCO Corporate Building San Diego Interior Acoustical Assessment
Peter Rios Estates Apartments Acoustical Assessment
Pheasant Hills Acoustical & Vibration Environmental Assessments
Pier View Site Assessment / Due Diligence Study
Pine Hills Mutual Water Company Construction Acoustical & Air Quality/GHG Conformity Assessments
Pinjuv Development Architectural Acoustical Assessment
Pioneer Ave Traffic Noise Monitoring Program
Plaza De Oro Shopping Center Acoustical and Air Quality Conformity Assessment
Plaza San Clemente Photometric Signage Analysis
Pleasant Bay Residential Architectural Acoustical Assessment
Poinsettia Property Carlsbad Acoustical & Air Quality Conformity Assessments
Poinsettia Ridge Sound Transmission Classification (STC/OITC) Testing
Porta d' Italia Sound Transmission Classification (STC/OITC) / Impact Isolation Classification (IIC) Compliance



Past ISE Projects

Poway Corporate Center Acoustical Site Assessment
Presidio Apartments Acoustical & Air Quality/GHG Conformity Assessments
Presidio Station Acoustical & Air Quality Conformity Assessments
Professional Auto Transport Air Quality Conformity Assessment
Promenade Project Acoustical Assessment
Prometheus Labs Acoustical Assessment
Prospect Avenue Acoustical Mitigation Solutions
Prospect Glen Acoustical Assessment
PureFitness Acoustical Compliance Study
Quail Garden Drive Expansion Acoustical Monitoring
Quail Gardens Drive Acoustical Compliance Report
Quail Gardens Drive Phase 3 Environmental Analyses
Quail Gardens Drive Southern Extension Environmental Permitting
Quail Gardens Estates
Quail Point Architectural Acoustical Assessment
Quail Pointe CCR Title 24 Assessment
Quantum II Property Acoustical Assessments
Race Tentative Map Subdivision Acoustical & Air Quality Conformity Assessments
Raleigh Property Acoustical Assessment
Ramona 10 Lot Subdivision Acoustical Assessment
Ramona Library Acoustical & Air Quality/GHG Conformity Assessments
Ramona Soil Source Environmental Assessments
Ramona Transmissions Acoustical Assessment
Ramona Waste Water Treatment Plant Acoustical & Air Quality Conformity Assessments
Rancheros Residential Sound Transmission Classification (STC/OITC) Test
Rancho Bernardo Inn Acoustical Compliance Assessment
Rancho Bernardo Pump Station Noise & Ground Vibration Assessment
Rancho Cielo HOA Expert Witness
Rancho Rose Condominium Architectural Acoustical & Site Assessments
Rancho Verona Acoustical Site Assessment
Reche Road (Tentative Map 5547) Acoustical Review
Relocated Beeler Shaft (SDCWA) Acoustical, Ground Vibration & Air Quality Conformity Assessments
Renaissance Terrace Tentative Map Acoustical Site Assessment
Rhone Residential Architectural Acoustical & Site Compliance Assessments
Rincon Escondido, LLC Project Acoustical & Air Quality Conformity Assessments
Rios Canyon Acoustical & Air Quality Conformity Assessment
Riva Gardens Residential Acoustical Assessment



Past ISE Projects

River Ranch North Architectural Acoustical Assessment
River Ranch South Architectural Acoustical Assessment
River Run East & West Acoustical & Air Quality Conformity Assessments
Riveria Del Sol Acoustical Assessment & Architectural Acoustical Assessment
Riveria Del Sol MMRP Compliance
Riverside Motocross Track Code Enforcement Monitoring & Reporting
Riviera Drive Condominiums Impact Isolation Classification (IIC) Testing
Riviera Hotel Impact Isolation Classification (IIC) Testing
RMWD Photovoltaic Upgrade Construction Air Quality Conformity Assessment
Robertson Ranch EIR Carlsbad Acoustical & Air Quality Conformity Assessments
Robertson's Concrete Escondido Operational Compliance Assessment
Robertson's Concrete Facility Escondido Acoustical & Air Quality Conformity Assessments
Robertson's Concrete Facility Vista Acoustical & Air Quality Conformity Assessments
Robertson's Ready Mix Ramona Acoustical Site Assessment
Robinson Electric Acoustical Assessment
Rock Springs Residential Acoustical Assessment
Rose Bay Townhouses Architectural Acoustical Assessment
Roslyn Lane HOA Expert Witness
Roslyn LLC Expert Witness
Ryan Continuation School Acoustical & Air Quality Conformity Assessments
Sabre Springs Architectural Acoustical Assessment
Sage Canyon San Elijo Hills Area F1 Architectural Acoustical & Site Permitting Assessments
Salas Residential Property Acoustical Assessment
San Diego Ball Field (PETCO Park) Acoustical Assessment
San Diego City Crown Point Emergency Sewer Replacement Acoustical Mitigation Monitoring
San Diego CNG Refueling Facility Acoustical & Air Quality Conformity Assessment Constraint Studies
San Diego County Environmental Services & Educational Center Acoustical Assessment
San Diego County Water Authority (SDCWA) Lake Hodges Tunnel Blasting Vibration Assessment
San Diego County Water Authority MMRP Compliance
San Diego Drums Acoustical Compliance Assessment
San Diego Gas & Electric (SDG&E) Los Coches Substation Construction Acoustical Monitoring
San Diego Gas & Electric (SDG&E) Moreno Valley Compressor Station Acoustical & Vibration Testing
San Diego Gas & Electric (SDG&E) Sunrise O&M Helicopter Model Generation
San Diego Gas & Electric (SDG&E) Sunrise Powerlink Acoustical & Vibration Engineering / MMRP Compliance
San Diego Greenwaste Air Quality Conformity Monitoring
San Diego High School Acoustical & Air Quality Conformity Assessments



Past ISE Projects

San Diego Home Depot Rental Facility Noise Compliance
San Diego Imperial Valley Campus Project Environmental Assessment
San Diego Main & Mace Acoustical Study
San Diego Master Plan Acoustical & Air Quality Conformity Assessment
San Diego Yacht Club Acoustical Site Assessment
San Dieguito Wetland Restoration MMRP Compliance Monitoring
San Elijo Hills Albertsons Acoustical Assessment
San Elijo Hills Area C-1 Acoustical & Air Quality Conformity Assessments
San Elijo Hills Area C-3 Acoustical Assessment
San Elijo Hills Area G-1 Acoustical & Air Quality Conformity Assessments
San Elijo Hills Area H-3 Acoustical Assessment
San Elijo Hills Area H3 Sound Transmission Classification (STC/OITC) Test
San Elijo Hills Area V2 Acoustical Assessment
San Elijo Hills Areas E-1 E-2 I-1 & I-2 Residential Acoustical Assessments
San Elijo Hills Towncenter Acoustical Assessment
San Juan Capistrano Desalination Plant Acoustical Site Assessment
San Manuel Casino Expansion Acoustical & Air Quality Conformity Assessments
San Manuel Parking Lot Air Quality Conformity Assessment
San Miguel Ranch Acoustical Site Assessment
San Miguel Ranch Planning Area B Site Assessment, Architectural Acoustical, Sound Transmission Classification (STC/OITC) Assessments
San Pasqual Recycled Water Pipeline Acoustical
San Pasqual Soil Source Assessments
San Ysidro Land Port of Entry Historic Structure Construction Vibration Monitoring Program
Sanderling School Acoustical Assessment
Sanderson & Acacia Commercial Center Environmental Assessments & Permitting
Santa Fe Station Acoustical & Air Quality/GHG Conformity Assessments
Santa Luz Unit 14 Architectural Acoustical & Site Compliance Assessments
Sapper Tentative Parcel Map Acoustical Study
Sav-On Drugs Chula Vista Acoustical Assessment
Sawyers Mill Acoustical Assessment & Architectural Acoustical Assessment
Scotsman Biological Acoustical Monitoring MMRP
Scripps Pomerado Hospital Acoustical Assessment
Scripps Ranch Middle School Acoustical & Air Quality Conformity Assessments
SDCWA Beeler Shaft Acoustical, Ground Vibration & Air Quality Conformity Assessments
Sea Breeze Carmel View Property Acoustical Assessment
Seacoast Drive Ground Vibration Monitoring



Past ISE Projects

Self-Realization Fellowship Church Encinitas Acoustical Monitoring & Consultation
Self-Realization Fellowship Church Valley Center Code Enforcement Monitoring
Semo Residential Project Encinitas Acoustical Assessment
Serra High School Data Center Building Acoustical Assessment
Settlers Point (Los Coches II) Acoustical & Air Quality Conformity Assessments
Seven Oaks Residential Acoustical Assessment
SEVILLA Property Acoustical & Air Quality Conformity Assessment
Shadow Run Ranch Acoustical & Air Quality Conformity Assessments
Shirley Lane Tentative Map Lemon Grove Acoustical Site Assessment
Shorees Property Tentative Parcel Map 21054 Acoustical & Air Quality/GHG Conformity Assessments
Shoreline Resort Acoustical Assessment
Sierra Bella Acoustical Assessment
Sierra Madre Academy Acoustical & Air Quality Conformity Assessments
Sierra Ridge Architectural Acoustical Assessment
Sigsbee Row Acoustical Assessment
Silver Sage Expert Consultation
Silvergate San Marcos Architectural Acoustical Assessment
Silverleaf Center Acoustical Assessment
Silverleaf Estates Acoustical & Air Quality/GHG Conformity Assessments
Simon Residence in La Jolla Biological Noise Monitoring
Simpsons Farms Acoustical & Air Quality Conformity Assessments
Singing Hills Acoustical & Air Quality Conformity Assessments
Skandia Architectural Acoustical Assessment
Sky Ranch Airport Acoustical Site Study / Air Quality Conformity Assessment
Skyline Ranch CC Operational Acoustical Assessment
Skyline Terrace Acoustical Assessment
Skyline Truck Trail Tentative Parcel Map 21107 Acoustical & Air Quality/GHG Conformity Assessments
Skystream Wind Turbine Acoustical Study
Snider Generator Acoustical Compliance Study
Solutions for Change Architectural Acoustical Assessment
Sonoma at Eastlake Architectural Acoustical Assessment
Sorrento Valley Pump Station Acoustical & Vibration Monitoring
South Bay Baptist Church Acoustical Site Assessment / Permitting
South Beach Restaurant Acoustical Assessment
South Melrose Office Plaza Acoustical & Air Quality Conformity Assessments
South Mill Creek CCR Title 24 Study
Southerly Project (Lake Elsinore)



Past ISE Projects

Southern Hills Environmental Assessments
Spencer's Crossing Villages 1 through 4, Acoustical & Air Quality Conformity Assessments
Spherion Legal Acoustical Assessment
Springbrook Residential Development Acoustical & Air Quality Conformity Assessments
Springhill Suites Acoustical Site Assessment
Sprint Cell Sites (various) Acoustical & EMF Compliance Assessments
SR-98 Improvement Caltrans Acoustical & Air Quality Conformity Assessments
SR-163 Interchange Caltrans Acoustical & Air Quality Conformity Assessments
SRWB Property Acoustical Assessment (Carlsbad)
St John Recycling Center Acoustical & Air Quality/GHG Conformity Assessments
St. Adelaide Church Acoustical & Air Quality Conformity Assessments
St. Gregory Church Acoustical Assessment
Standish Precision Tool Relocation Survey
STARCO Foodmart Acoustical Assessment
Steele Canyon Phase V Air Quality Conformity Assessment
Stephens Property Vista Acoustical & Air Quality Conformity Assessments
Stewart Pipeline Engineering Analysis
Stonebridge Exterior Interior Acoustical Assessment
Stoneridge Ranch Commercial Air Quality Conformity Assessment
Straw House Acoustical Assessment
Stuart Subdivision Kern County Acoustical & Air Quality Conformity Assessments
Suds Sports Grill Sound Transmission Classification (STC/OITC) Compliance
Sully Miller Vibratory Roller Forensic Assessment
Summit At Carlsbad Acoustical Site Assessment / Architectural Acoustical Assessment
Summit at Eastlake Acoustical & Air Quality/GHG Conformity Assessments
Sunrise Assisted Living Tentative Parcel Map Acoustical Site Assessment
Sunrise Bonita Architectural Acoustical Assessment
Sunrise Pacific Beach Architectural Acoustical Assessment
Sunrise Powerlink O&M Helicopter Analytical Model Generation
Sweetwater Condo Conversion Assessments
Sycamore Estates Vista Environmental Impact Report (EIR)
Sycamore Highlands Acoustical & Architectural Acoustical Assessment
Sycamore Unit 3 Acoustical Assessment
Synergy Dance Studio Acoustical Compliance Study
Tabata Tentative Parcel Map Carlsbad Acoustical & Air Quality Conformity Assessments
Takahasi Tentative Parcel Map Acoustical Assessment
Tanner Residence Architectural Acoustical Assessment



Past ISE Projects

Taylor Homes Architectural Acoustical Assessments
Temecula WalMart Loading Dock Assessment
Tentative Map 429 Higgins Estates Acoustical Assessment
Tentative Map 432 Rock Crusher Assessment
Tentative Map 5103 Residential Acoustical Assessment
Tentative Map 5134 RPL (Welk Garden Villas) Air Quality Conformity Assessment
Tentative Map 5134 RPL Welk Garden Villas Architectural Acoustical Assessment
Tentative Map 5164 Development Acoustical Assessment
Tentative Map 5165 Architectural Acoustical Assessment
Tentative Map 5166RPL Acoustical Assessment
Tentative Map 5217 and 5227 Acoustical & Air Quality Conformity Assessments
Tentative Map 5236 Acoustical & Dark Sky Assessments
Tentative Map 5268 Acoustical Site Assessment
Tentative Map 5306 Los Coches Air Quality Conformity Assessment
Tentative Map 5308 Acoustical & Air Quality Conformity Assessment
Tentative Map 5318 Pine Valley Park Acoustical & Air Quality Conformity Assessments
Tentative Map 5332 Crest View Construction Acoustical Assessment
Tentative Map 5358 Acoustical & Air Quality Conformity Assessments
Tentative Map 5369 Acoustical & Air Quality Conformity Assessments
Tentative Map 5378 Residential Acoustical Assessment
Tentative Map 5387 Las Casitas Acoustical & Air Quality Conformity Assessments
Tentative Map 5390 The Groves Acoustical & Air Quality Conformity Assessments
Tentative Map 5431 Victoria Estates Acoustical & Air Quality Conformity Assessments
Tentative Map 5454 Acoustical & Air Quality Conformity Assessments
Tentative Map 5498 Acoustical & Air Quality Conformity Assessments
Tentative Map 5537 Acoustical Site & CCR Title 24 Assessments
Tentative Map 18440 Acoustical Assessment
Tentative Parcel Map 5172 Acoustical Assessment
Tentative Parcel Map 5246 Acoustical Assessment
Tentative Parcel Map 5277 Acoustical Assessment
Tentative Parcel Map 5294 Spitsbergen Acoustical & Air Quality Conformity Assessments
Tentative Parcel Map 20620 Acoustical & Air Quality Conformity Assessments
Tentative Parcel Map 20665 Acoustical Assessment
Tentative Parcel Map 20679 Acoustical & Air Quality Conformity Assessments
Tentative Parcel Map 20679 Acoustical Assessment
Tentative Parcel Map 20684 Acoustical Assessment
Tentative Parcel Map 20703 Acoustical & Air Quality Conformity Assessments



Past ISE Projects

Tentative Parcel Map 20703 Acoustical Assessment
Tentative Parcel Map 20719 (Grizzle) Acoustical Assessment
Tentative Parcel Map 20729RPL2 Tabata Acoustical Assessment
Tentative Parcel Map 20771 Acoustical Assessment
Tentative Parcel Map 20832 Residential Acoustical Assessment
Tentative Parcel Map 20847 Acoustical & Air Quality Conformity Assessments
Tentative Parcel Map 20847 Architectural Acoustical Assessment
Tentative Parcel Map 20899 Acoustical & Air Quality Conformity Assessments
Tentative Parcel Map 20918 Acoustical & Air Quality Conformity Assessments
Tentative Parcel Map 20974 Acoustical & Air Quality Conformity Assessments
Tentative Parcel Map 20995 Acoustical & Air Quality Conformity Assessments
Tentative Parcel Map 21030 Acoustical Assessment
Tentative Parcel Map 21030 CCR Title 24 Acoustical Assessment
Tentative Parcel Map 21032 Acoustical Assessment
Tentative Parcel Map 21033 Acoustical Assessment
Tentative Parcel Map 21048 Acoustical & Architectural Site Assessments
Tentative Parcel Map 21056 Acoustical Assessment
Tentative Parcel Map 21079 Acoustical Assessment
Tentative Parcel Map 21083 CCR Title 24 Acoustical Assessment
Tentative Parcel Map 34760 Acoustical & Air Quality/GHG Conformity Assessments
TERI Project Acoustical & Air Quality Conformity Assessments
The Boulevard Gas Station Acoustical Site Assessment
The Casitas at Spring Creek Architectural Acoustical Assessment
The Club at Spencer's Crossing Acoustical Permitting Study
The Cottages Acoustical & Air Quality Conformity Assessments
The Goldwyn Condominiums South El Monte Acoustical Site Assessments / Permitting Assistance
The Stonemark Bakersfield Impact Isolation Classification (IIC) / Sound Transmission Classification (STC/OITC)
Tokar Tentative Parcel Map Acoustical Site Assessment
Torrey Pines Replacement Water Pipeline Acoustical & Ground Vibration Assessment
Tower on Fifth Acoustical Assessment
Toy Factory Acoustical & Vibration Site Assessments
Tract 861 Residential Acoustical Assessment
Tract 16756 Acoustical & Air Quality Conformity Assessments
Tract 30694 (Spencer's Crossing) Acoustical & Air Quality Conformity Assessment
Tract 30695 (Spencer's Crossing) Acoustical & Air Quality Conformity Assessment
Tract 30696 (Spencer's Crossing) Acoustical & Air Quality Conformity Assessment



Past ISE Projects

Tract 32151 Acoustical Assessment
Tract 32289 (Spencer's Crossing) Acoustical & Air Quality Conformity Assessments
Tract 32290 (Spencer's Crossing) Acoustical & Air Quality Conformity Assessments
Tract 34333 Acoustical & Air Quality Conformity Assessments
Tran Sweetwater Road Duplex Acoustical Assessment
Travertine Estates Acoustical & Air Quality/GHG Conformity Assessments
Tres Cerritos Air Quality Conformity Assessment
Treviso Residential Sound Transmission Classification (STC/OITC) / Impact Isolation Classification (IIC)
Triana at Warner Center Acoustical Assessment
Tule Wind Project Acoustical & Air Quality/GHG Conformity Assessments
Turning Point Acoustical Assessment
UDR Presidio Acoustical Assessment
Union Pacific Imperial Valley Rail Noise & Vibration Analysis
University District San Marcos Acoustical & Air Quality Conformity Assessments
University of Phoenix CCR Title 24 Assessment
Valencia Business Park Acoustical & Air Quality Conformity Assessments
Valley Center Community Church Acoustical & Air Quality Conformity Assessment
Valley Center Elementary School Site Assessment / Due Diligence Study
Vanguard Center Acoustical Site Assessment
Vassar Villas Los Angeles Acoustical Assessment
VBP Building #2 Acoustical Assessment
Ventana Residential Development Project Acoustical & Air Quality Conformity Assessments
Venture High School Conditional Use Permit Acoustical Assessment
Via Centre Office Park Acoustical Permitting Study
Via Roble Apartments Architectural Acoustical & Site Assessments
Victoria Estates Tentative Map 5431 Acoustical Site Assessment
Victoria Village CCR Title 24 Architectural Acoustical Assessment
Viejas Casino Acoustical & Air Quality Conformity Assessments
Viejas Hotel Expansion Project Acoustical & Air Quality Conformity Assessments
Village Courtyard Shopping Center Air Quality Conformity Assessment Expert Consultation
Village Knoll Shopkeeper Acoustical Assessment
Village Walk Acoustical Assessment
Villages of La Costa Areas 1.3, 1.07, 1.08 through 1.14, 1.17, 2.1, 2.6, 3.1, 3.5 through 3.7, 3.9, 3.10 through 3.15, Acoustical Site & Architectural Acoustical Assessments
Villages of La Costa Biological MMRP Noise Monitoring Program
Villages of La Costa Construction Compliance Assessment
Villages of La Costa Greens Area 1.06 Acoustical & Air Quality Conformity Assessments



Past ISE Projects

Villages of La Costa Greens Area 1.07 Acoustical Assessment
Villages of La Costa Greens Area 1.17 Acoustical Assessment
Villages of La Costa Recreation Center Acoustical Assessment
Villages of La Costa Rock Crusher Environmental Compliance Assessment
Villagio Architectural Acoustical Assessment / Impact Isolation Classification (IIC) Testing
Villas at Mission Point Acoustical & Architectural Acoustical Assessments
Vintage Point Phase II Architectural Acoustical Assessment
Vintage Pointe Phase II (Oceanside) Acoustical & Air Quality Conformity Assessments
Vista 7-11 Store #6049 Acoustical Assessment
Vista CIP 8046 Acoustical Review
Vista Community Park Acoustical & Air Quality Conformity Assessments
Vista Del Lago Acoustical Assessment
Vista Dog Park Acoustical Assessment
Vista Focus Academy Acoustical & Air Quality Conformity Assessment
Vista General Plan Acoustical & Air Quality Conformity Assessments
Vista Grande Acoustical & Air Quality Conformity Assessment
Vista Grande Reservoir Acoustical Site Assessment
Vista Hacienda Condominiums Architectural Acoustical Assessment
Vista Hacienda Gateway Acoustical & Air Quality Conformity Assessments
Vista Las Flores Architectural Acoustical Assessment
Vista Las Flores Environmental Permitting
Vista Melrose Business Center Acoustical & Air Quality Conformity Assessments
Vista Sports Park Blasting Noise & Vibration Monitoring
Vista Village Plaza Acoustical & Air Quality Conformity Assessments
Vitro-Rockwell Residential Biological Noise Monitoring
Wake Avenue Subdivision Assessment
Wakeland Housing Santee Apartments Architectural & Site Compliance Acoustical Assessment
Walker Residence Vibration Testing
Warmington Ensley Cottages Ontario Acoustical Site & CCR Title 24 Assessments
Warmington Greenway Place Whittier Acoustical Site & CCR Title 24 Assessments
Warmington Ladera Ranch OC Acoustical Site & CCR Title 24 Assessments
Warmington Melrose Vista 47 Photometric Assessment
Warmington Melrose Vista 50 Acoustical Site & CCR Title 24 Assessments
Warmington Victory 63 Acoustical Site, Photometric & CCR Title 24 Assessments
Warmington Wallis 5 (Trestle) Photometric Assessment
Warmington Wallis 7 Photometric Assessment
Warner Center Apartments Acoustical Assessment



Research and Development at ISE

Scientific Research and Development at ISE

For over 20 years, ISE has very successfully employed a commercialization process of reinvestment of earned revenues toward new research and development of innovative, or more advanced, methodologies, systems, and analytical tools. These have been, in turn, incorporated into our professional services and customized solutions offered to clients.

ISE's research and development has been termed by some as, "solutions looking for a problem". We are constantly tinkering and exploring research topics, which are not only advantageous to our clients, but also of innate interest to us.

As a matter of company culture, we encourage our staff to explore science and engineering topics in their own areas of interest. Since our staff have interests in a wide variety of subject matter, including wave propagation, mass spectroscopy, gas dynamics, structural and environmental acoustics, air pollution transport, structural dynamics and control systems, and electromagnetic propagation, control-feedback systems, cryogenic instrumentation, low and high temperature superconductor sensor controllers, data acquisition, fiber-optics, and design of EMI protection for electronics - we're never running out of topics to explore.

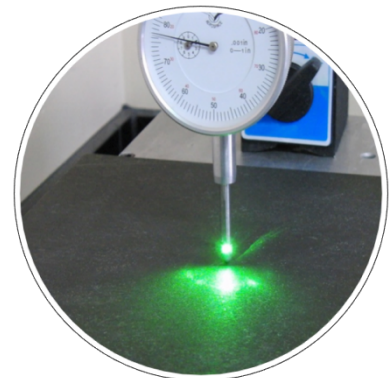
Past ISE Research and Development Projects

ISE and its principal researchers have been involved in collaborative partnerships between industry, and academic R&D projects. Our teaming partners have included the following entities.

University of California Irvine	Department of Energy
Nevada Test Site	NASA Ames Research Center
Pacific Gas and Electric Company	Los Alamos National Labs
University of California San Diego	United States Coast Guard
Pacific Earthquake Engineering Research Center	

Some of our past research and development projects have included:

- Design and Implementation of EMI/EMF Protection for Electronic Systems.
- Design and Implementation of Noise-Alert System for Mass Grading Construction Operations.
- Design and Layout of Cryogenic Temperature Controllers for Laboratory, Cryo-cooler, and Semiconductor Fabrication Applications.
- Design and Layout of Superconducting Non-Destructive





Research and Development at ISE

Evaluation (NDE) System Products.

- Design and Layout of Thermocouple Instrumentation for Cryogenic Laboratory Applications.
- Determination of Dynamic Failure Characteristics of U.S. Coast Guard “Star-Rotor” Assembly.
- Determination of Modal Characteristics of Damped and Undamped Composite Missile Interceptor Structures.
- Determination of Seismic Failure Modes of High Voltage Transformer Ceramic Bushings. Determination of Seismic Transmissibility of 500KV Transformer-Bushing Pairs.
- Electronic and Software Development / System Integration for specialized custom data acquisition systems, and precision instrumentation.
- Experimental Determination of Damage in a Lightly Damped Elastic Space Truss.
- Improved Civil Structural Damage Detection Method.
- Underground Seismic Response of Large Nuclear Explosives using Rayleigh Wave Propagation.

