

**AGENDA**  
**TOWN OF EDGEWOOD**  
**REGULAR COUNCIL MEETING – NOVEMBER 2, 2016 @ 6:30 P.M.**  
**EDGEWOOD COMMUNITY CENTER - 27 E. FRONTAGE ROAD**  
**PLEASE SILENCE ALL ELECTRONIC DEVICES DURING MEETING**  
**THANK YOU.**

(The Town of Edgewood Council is pleased to have residents of the community take time to attend Council Meetings. Attendance and participation is encouraged. Individuals wishing to be heard during Public Hearing proceedings are encouraged to be prepared. Public comments may not be disruptive or harassing, and all persons are expected to maintain respect and decorum. Accordingly, rude, slanderous, or abusive comments and/or boisterous behavior will not be permitted. Written comments are welcomed and should be given to the Clerk-Treasurer prior to the start of the meeting).

1. **CALL TO ORDER.**
2. **PLEDGE OF ALLEGIANCE.**
3. **APPROVAL OF AGENDA.**
4. **APPROVAL OF MINUTES.**
  - a. Approval of the Draft Regular Council Meeting Minutes of October 19, 2016
5. **ACKNOWLEDGEMENT OF CONSENT AGENDA.**
  - a. Acknowledge receipt of the Planning & Zoning Commission Meeting Minutes of October 17, 2016
6. **RESOLUTION 2016-20 DECLARING THE ELIGIBILITY AND INTENT OF THE TOWN OF EDGEWOOD TO SUBMIT A TRESTLE BRIDGE APPLICATION TO THE NEW MEXICO DEPARTMENT OF TRANSPORTATION FOR FEDERAL FISCAL YEAR 2018/2019 TRANSPORTATION ALTERNATIVES PROGRAM (TAP) FUNDS.**
7. **APPROVAL OF THE LEASE AGREEMENT BETWEEN MESD AND THE TOWN OF EDGEWOOD**
8. **MATTERS FROM THE MAYOR.**
  - a. Approval of the appointment of Mr. Lorenzo Stanton to the Planning and Zoning Commission of the Town of Edgewood
  - b. Approval of the appointment of Mr. James Lee Jr. to the Planning and Zoning Commission of the Town of Edgewood
9. **MATTERS FROM THE COUNCILORS and/or ANNOUNCEMENTS.**
10. **MATTERS FROM THE MUNICIPAL JUDGE WILLIAM H. WHITE**
  - a. Judge White will present his report for the month of October 2016.
11. **PUBLIC COMMENTS OF GENERAL MATTERS. Limit to 2 minutes per person.**
12. **MATTERS FROM THE CLERK/TREASURER.**

**13. ANNOUNCEMENTS and/or CALENDAR REVIEW.**

- a. Regular Council Meeting – November 16, 2016 @ 6:30 P.M.
- b. Election Day is Tuesday, November 8<sup>th</sup>, 2016
- c. NOTE: Town Hall offices will be closed on Friday, November 11<sup>th</sup>, 2016 in observance of Veterans Day

**14. FUTURE AGENDA ITEMS.**

- a. Lodgers Tax Ordinance
- b. Adoption of an amendment to the Zoning Ordinance changing the definition of “Building Height”
- c. Residing the Personnel Ordinance and putting in place a Personnel Policy

**15. CLOSED SESSION**

As per motion and roll call vote, pursuant to NMSA 1978, 10-15-1 (H)(8) the following will be discussed in Closed Session.

- Purchase, acquisition or disposal of real property

**ADJOURN.**

If you are an individual with a disability who is in need of a reader, amplifier, qualified sign language interpreter, or any other form of auxiliary aid or service to attend or participate in the hearing or meeting, please contact the Clerk at the Town Offices located at 1911 Historic Route 66, at least five (5) days prior to the meeting or as soon as possible. Public documents, including the agenda and minutes, can be provided in various accessible formats. Please contact the Town Clerk at (505)286-4518, or by e-mail at [clerk@edgewood-nm.gov](mailto:clerk@edgewood-nm.gov) if a summary or other type of accessible format is needed. **The complete council packet may be viewed on the web, visit [www.edgewood-nm.gov](http://www.edgewood-nm.gov) click on Agendas & Minutes.**

**DRAFT MINUTES  
TOWN OF EDGEWOOD  
PLANNING & ZONING COMMISSION MEETING  
OCTOBER 17, 2016 AT 6:00 PM  
EDGEWOOD COMMUNITY CENTER  
27 E. FRONTAGE ROAD, EDGEWOOD, NM 87015**

**1. CALL TO ORDER & ROLL CALL**

The meeting was called to order at 6:08 pm and roll call was taken.  
Commissioners present were Cheryl Huppertz, Garry Bryant, and Dan Thompson.  
Also present were Larry Sullivan, Planning Administrator and Bonnie Pettee, Planning Assistant.

**2. APPROVAL OF AGENDA**

**MOTION:** Commissioner Huppertz moved to approve the agenda for the October 17, 2016 meeting.  
Commissioner Bryant seconded the motion.

**VOTE:** All Commissioners present voted aye. Motion carried.

**3. APPROVAL OF MINUTES:**

A. Draft Planning & Zoning Commission Meeting Minutes of October 3, 2016

**MOTION:** Commissioner Bryant moved to approve the Minutes of the October 3, 2016 as presented.  
Commissioner Huppertz seconded the motion.

**VOTE:** All Commissioners present voted aye. Motion carried.

**4. SITE VISIT**

Liberty Square and Subdivision south of Walgreens on Edgewood 7.  
The meeting was recessed while the Commissioners visited the two subject properties.

Chairman Thompson called the meeting back to order.

**5. PUBLIC COMMENTS**

There were none.

**6. FINDINGS OF FACT, CONCLUSIONS OF LAW AND RECOMMENDED ORDER**

A. Woods End Ranch -3 lot subdivision, along Woodline Drive, Tract P-1-R-1-B, Section 21,  
T10N, R7E, N.M.P.M., Town of Edgewood, Santa Fe County, NM.

**MOTION:** Commissioner Huppertz moved to approve the Findings of Fact, Conclusions of Law  
and Recommended Order for a 3 lot subdivision along Woodline Drive, Edgewood, NM  
as written. Commissioner Bryant seconded the motion.

**VOTE:** All Commissioners present voted aye. Motion carried.

B. Conditional Use Permit for a K1-12 Charter school located at Hwy 344, Tract A-2, Parcel A, Lone Pine  
Ranch, Section 22, T10N, R7E, N.M.P.M. Town of Edgewood, Santa Fe County, NM 87015.

Mr. Sullivan explained this was not an approval, only preliminary subject to conditions listed.  
Mr. Sullivan stated an application is required for a Development Review plan to be approved by Town  
Council. He added the Commissioners may get to see the preliminary plans.

**MOTION:** Commissioner Huppertz made a motion to approve the Conditional Use for the K1-12 Charter  
School with the conditions listed on page 4. Commissioner Bryant seconded the motion.

**VOTE:** All Commissioners present voted aye. Motion carried.

**7. RECOMMENDATION FOR REVISIONS TO THE TOWN OF EDGEWOOD ZONING ORDINANCE – District Standards, Height Restrictions**

Ms. Pettee reviewed the proposed changes to the Zoning Ordinance, District Standards and read the reasons for the changes. She explained the overall change is that the restrictive height will be increased to forty (40) feet and explained the differences between the changes in zoning categories. Some categories, such as C-2 Commercial may need a higher building height. This exception can be reviewed on a case by case basis. Ms. Pettee also noted some of the categories did not have setbacks listed or height restrictions, so both were added to those. She stated if the Commission approved the changes, this would move forward as a recommendation to Town Council.

**MOTION:** Commissioner Huppertz made a motion to approve the recommendations for changes to the Town of Edgewood Zoning Ordinance 2014-02, Zoning Categories, District Standards to move forward to Town Council as stated. Commissioner Bryant seconded the motion.

**VOTE:** All Commissioners present voted aye. Motion carried.

**8. MATTERS FROM THE CHAIR AND COMMISSION MEMBERS**

There were none.

**9. MATTERS FROM STAFF**

**A. Commissioners Term of Service**

Ms. Pettee asked if the dates of service listed on the Commission Contact Information page were correct. Mr. Sullivan asked them to think about whether or not they would consider continuing to serve on the Commission. The current terms will not end until January, so there was some time.

Mayor Bassett arrived at this time.

**B. Comments on format for minutes**

Mr. Sullivan stated there had been some discussion at Council meeting about the minutes of the Planning Commission. He did not fully understand the nature of the complaint and thought staff had complied to provide the information requested. He continued saying that we (the Planning Commission) have the authority to decide how our minutes should be written and so we will continue as we have in the past. As for the “Workshop” portion of the minutes, he added this portion of our meeting is discussion of ideas and suggestions. It is not necessary to include a lot of details regarding what is said.

**C. Update on Impact Fee Study**

Mr. Sullivan explained Impact Fees and the report that staff is currently working on. He stated the report will contain information obtained from Santa Fe County Fire Department regarding equipment and maintenance expenses. It will also ask for areas in which the funds from impact fees can best be put to use. He noted the Commissioners will need to approve the report before it moves forward to Council. He asked Ms. Pettee for her input on the report.

Ms. Pettee stated that she has been gathering information on fees paid for new homes and commercial buildings. The fees paid will be broken down into square footage for each category. She noted that Renee Nix from the Fire Department will be working with her providing information from the Fire Department. The last time the report was completed was in 2010. In searching, Ms. Pettee noted has been able to located information that dated back to 2011. So when the report is complete, it will bring the fees paid up to date.

**CALENDAR UPDATE AND FUTURE AGENDA ITEMS.**

**A. Joint Workshop on Subdivisions – November 12<sup>th</sup> - 3:30 pm – (medical matter for Councilor)**  
The date for the joint workshop was discussed among the Commissioners and determined that the 12<sup>th</sup> of November will not work. An alternative date will be forth coming.

**10. WORKSHOP**

**A. Road Standards & Paving Priority List**

This topic was postponed until next meeting.

**B. Site Visit**

The site visit was conducted to compare Liberty Square Subdivision on Route 66 to Los Pinones Subdivision on Walker Road. The two subdivisions were built five years apart.

Mayor Bassett addressed the Commissioners. He stated he brought this forward to show the differences the Commission can make with pre application conferences and requests made for the proper infrastructure. With Liberty Square, the applicant brought back the 13 requirements that were set before them. The subdivision was developed properly and the lots were sold quickly. With Los Pinones, the Commission didn't ask for much and didn't get much. The property has sat unsold and undeveloped for ten years.

**11. ADJOURN.**

**MOTION:** Commissioner Bryant made the motion to adjourn tonight's meeting. Commissioner Huppertz seconded the motion.

**VOTE:** All Commissioners present voted aye.

Chairman Thompson adjourned the meeting of October 17, 2016 at 8:18 pm.

PASSED, APPROVED AND ADOPTED on this 7<sup>th</sup> day OF NOVEMBER, 2016.

\_\_\_\_\_  
Dan Thompson, Chairman

ATTEST:

\_\_\_\_\_  
Garry Bryant, Secretary

**TOWN OF EDGEWOOD  
RESOLUTION NO. 2016-20  
RESOLUTION OF SPONSORSHIP**

**For a New Mexico Department of Transportation, Transportation Alternatives  
Program (TAP), Application and Maintenance Commitment**

**A resolution declaring the eligibility and intent of the Town of Edgewood to submit an application to the New Mexico Department of Transportation for Federal Fiscal Year 2018/2019 Transportation Alternatives Program (TAP) funds.**

**Whereas**, the Town of Edgewood, New Mexico, has the legal authority to apply for, receive and administer federal funds; and,

**Whereas**, the Town of Edgewood is submitting an application for Federal Fiscal Year 2018/2019 (FFY18/19) New Mexico TAP funds in the amount of \$ 411,000, as set forth by the Federal legislation, Fixing America's Surface Transportation (FAST) Act, and as outlined in the FFY 18/19 New Mexico TAP/RTP Guide; and,

**Whereas**, the Town Commons Trestle Bridge named in the TAP application is an eligible project under New Mexico TAP and the FAST Act; and,

**Whereas**, the Town of Edgewood acknowledges availability of the required local match of 14.56% and the availability of funds to pay all costs up front, as TAP is a cost reimbursement program; and,

**Whereas**, the Town of Edgewood, agrees to pay any costs that exceed the project amount if the application is selected for funding; and,

**Whereas**, the Town of Edgewood, agrees to maintain all project constructed with TAP funding for the useable life of the project;

**Now, therefore be it resolved by the governing body** of the Town of Edgewood, that:

- 1.** The Town of Edgewood, authorizes Juan Torres, Clerk/Treasurer to submit an application for FFY18/19 New Mexico TAP funds in the amount of \$ 411,000 from the New Mexico Department of Transportation (NMDOT) on behalf of the Town of Edgewood.
- 2.** That the Town of Edgewood assures the NMDOT that if or TAP funds are awarded, sufficient funding for the local match and for upfront project costs are available, since TAP is a reimbursement program, and that any costs exceeding the award amount will be paid for by the Town of Edgewood.
- 3.** That the Town of Edgewood, assures the NMDOT that if awarded TAP funds, sufficient

funding for the operation and maintenance of the TAP project will be available for the life of the project.

4. That Juan Torres of the Town of Edgewood, is authorized to enter into a Cooperative Project Agreement with the NMDOT for TAP projects using these funds as set forth by the FAST Act on behalf of the citizens of the Town of Edgewood. Juan Torres is also authorized to submit additional information as may be required and act as the official representative of the Town of Edgewood in this and subsequent related activities.

5. That the Town of Edgewood, assures the NMDOT that the Town of Edgewood is willing and able to administer all activities associated with the proposed project.

**PASSED, ADOPTED, AND APPROVED** this \_\_\_\_\_ day of \_\_\_\_\_, 2016.

Town of Edgewood

\_\_\_\_\_  
John Bassett, Mayor

ATTEST:

\_\_\_\_\_  
Juan Torres, Clerk/Treasurer

Lease Agreement between Moriarty-Edgewood School District  
and the Town of Edgewood, NM

This agreement, made this 25th day of October, 2016 by and between Moriarty-Edgewood School District Board of Education (MESD), lessor, and the Town of Edgewood (Town), lessee, a municipal corporation in the County of Santa Fe and State of New Mexico, for the purpose of providing space for a Town of Edgewood community library, and Town of Edgewood Municipal Offices.

**1. Description of the premise**

The premises are located at the campus formerly known as the Edgewood Elementary School in the Town of Edgewood, at 285 Dinkle Rd, Edgewood NM 87015, and the County of Santa Fe. The location is more specifically, the two northern most buildings, more particularly described on Exhibit A, attached hereto.

**2. Term of Lease**

The term of the lease shall be for a period of twenty five years, commencing on the first day of December, 2016 and ending after the last day of June 2041, and for such period of extension, thereafter as hereinafter mentioned. By mutual agreement, at the end of the original term, the lease may be renewed for up to twenty five additional years, provided that the Lessee is not in default, by giving MESD written notice not less than two (2) years before the expiration of the primary term hereof.

MESD shall have the right to reclaim the building(s) by giving the Town written notice not less than two (2) years before the date when the school determines that it needs the building(s) back.

Rent will be adjusted to reflect changes in property valuations at 5 year intervals during the term of the lease. Consideration will be given for any improvements made by the Town. All other terms and conditions of this lease shall remain in full force and effect during any renewal term, except as otherwise agreed by the parties.

MESD and the Town agree to treat each of the two distinct building wings as severable for the purposes of renewing or non-renewing this lease agreement.

**3. Rent**

The Town shall pay MESD in the manner set forth below an annual rent of four thousand, nine hundred and ninety-nine dollars and ninety-two cents (\$4,999.92), in one (1) annual lump sum payment for each of the two identified buildings- i.e. an aggregated amount of \$9,999.84 for both buildings.

Rent is due and payable on the first day of the fiscal year. MESD Shall Invoice the Town 30 days in advance. The first payment at execution of this agreement will be prorated to reflect the annualized amount accurately.

#### 4. Ownership of improvements

The Town agrees that it will, at its own expense, proceed with all diligence to remodel the leased spaces including, but not limited to Town library and various Municipal\_offices for the Town of Edgewood. Said facility shall, when completed and throughout the term of this lease, be under the exclusive control and in the care and custody of the Town; and the Town shall conform and comply with all applicable municipal, state, and federal ordinances, laws, rules and regulations in using the property and the facility.

All improvements which are placed on the Premises during the term of the lease by the Town shall be owned by the Town during the term of this lease: upon expiration of the term, such improvements shall become the property of MESD with the exception of portable buildings, playground equipment and sheds owned by the Town.

#### 5. Utilities

Dry Utilities including telephone, internet, gas, electric, will be paid by The Town promptly and will hold\_MESD harmless there from. MESD will supply water and septic service to the buildings leased by the Town at no additional cost.

#### 6. Maintenance

The Town, at its sole expense, shall keep and maintain the Premises and all improvements in good order and repair, including seats, furnishings, appliances, fixtures and all other accessories of the building thereon in a reasonable state of repair and preservation, and shall not suffer or permit any continuing nuisance thereon. The Town shall furnish janitor and custodian service, and insurance against fire, windstorm and other casualty for the term of this Lease and for sixty (60) days thereafter. The Town shall keep the entire leased premises clean, in good order, and free from unreasonable hazard.

MESD will remain responsible for major infrastructure maintenance such as roofing and heating/cooling systems.

#### 7. Assignment and Subletting

The Town may not assign, sublet, mortgage subordinate, alienate or hypothecate the Premises, or any part thereof, without the express written consent of MESD, and the approval of the State Board of Finance.

#### **8. Signs and Personal Property**

The Town may place signs on the Premises only with the advance written approval of MESD, which approval shall not be unreasonably withheld. All personal property, signs and improvements of the Town employees, agents, customers and invites shall be kept on or near the Premises at the sole risk of the Town, and MESD shall not be liable for any damage thereto.

#### **9. Inspection**

The Town will permit MESD to come upon the Premises at all reasonable times in order to inspect the condition, use, safety or security of the Premises.

#### **10. Laws**

The Town will comply with all applicable federal, state and local laws and with all applicable rules and regulations of MESD, and will insure that those persons using the premises so comply. The Town shall indemnify MESD and hold it harmless from and against any and all claims, damages, loss and liability (including, but not limited to attorney's fees and costs of litigation) suffered by MESD by reason of the Town's failure to comply with the foregoing terms of paragraph 11.

#### **11. Indemnity**

The Town shall indemnify and hold harmless MESD from all loss, cost, damage, liability and expense, including but not limited to attorney's fees and cost of litigation, incurred by MESD by reason of any claim against the Town arising out of the operation of the premises, except those claims arising out of the negligence of MESD employees acting in the course of their employment for the benefit of MESD and the Town.

The Town agrees with MESD that MESD shall not be liable for any damage to persons or property, arising from any cause whatsoever, which shall occur in or about the premises during the term of this lease and for sixty (60) days thereafter, and the Town hereby agrees to indemnify and save harmless MESD from any and all claims and liability for damage to persons or property. This provision shall not apply to activities in or about the facility held under authorization control of MESD.

In the case that the facility is damaged or destroyed by any cause against which insurance coverage is carried at the expense of the Town, the proceeds of such coverage shall be used to

repair the facility for use under the terms of this agreement throughout the remainder of the lease period, should such restoration be feasible. Should the facility be destroyed and not repaired, or should it be abandoned or removed by the Town, then the terms of this Lease shall end and the Premises shall be restored to the possession of MESD. Before sixty (60) days after the end of the term of this Lease the Town shall have the right to remove any improvements then existing upon the real estate, if it so elects, without the payment of an compensation to MESD, or it may leave the improvements upon the real estate and they shall become the property of MESD sixty (60) days after the expiration hereof.

#### 12. Waiver

No failure on the part of MESD to exercise and no delay in exercising any right, power or privilege hereunder shall preclude other or further exercise thereof, or the exercise of any other right, power or privilege. The rights or limitations herein provide area cumulative and not exclusive of any rights and remedies otherwise provided by law or equity.

#### 13. Expiration

Upon termination of this Lease by reason of the expiration of the term or any renewal thereof, the Town will peaceably surrender to MESD possession of the Premises and all improvements thereon in good condition and repair, reasonable wear and tear expected, with the exception of those items mentioned in Item #4.

Upon the expiration of the lease, the Town may remove or leave all improvements. Any improvements remaining on the premises sixty (60) days after the expiration of the term of the lease shall be the property of MESD.

#### 14. Insurance

The Town shall procure and maintain at its expense during the period of any occupancy of the premises, insurance in the kinds and amounts hereinafter provided with insurance companies, authorized to do business in the state of New Mexico, covering all operations under this agreement, whether performed by it or its agents. Upon execution of this agreement and upon the renewal of all overages, the user shall furnish MESD a certificate(s) in a form satisfactory to MESD, showing that it has complied with this section.

- a. Commercial General Liability Insurance – A commercial general liability insurance policy with combined limits of liability for bodily injury or property damage naming MESD as co-insured as follows (minimum requirements area shown as listed on a standard form certificate of insurance).

\$1,000,000 Per Occurrence

\$1,000,000 Policy Aggregate

\$1,000,000 Products Liability/completed outcomes

\$1,000,000 Personal and advertising injury  
\$ 50,000 Fire Legal  
\$ 5,000 Medical Payments

The policy of insurance must include coverage for all operations performed by the user, and contractual liability coverage shall specifically insure the hold harmless provisions of the Agreement.

#### 15. Use of Premises

The premises shall be used solely for the conduct and operation of Town of Edgewood Library and Municipal offices and for no other purpose. Should the Town use or intend to use the premises or improvements thereon for any other purpose whether lawful or not, such use or intent shall be presented to MESD for consideration, and this agreement shall either be renegotiated, or terminated in accordance with the terms hereof. Should the Town fail to notify MESD of any other use or intent to use the premises for another use, the Lease shall terminate immediately. In no event shall the premises be used for any unlawful purpose or other purpose constituting or creating a public or private nuisance.

The Town and MESD agree that neither will ever make, or undertake to make, an assignment of this lease, or sublease, or an arrangement of any kind contemplating a continuous use of said facility during the term of this lease by third persons or any commercial purpose, without the consent of the other.

#### 16. Holding Over

The Town agrees that no holding over after the expiration of the lease, or any renewal or extension hereof shall continue with or without the consent of MESD. If such holding ever occurs, it shall be construed, as tenancy from month to month and that such tenancy shall be subject to all the terms, conditions, and agreements of this lease, and shall not exceed six (6) months under any circumstances.

#### 17. Termination

Either party has the right to terminate the lease upon their sole discretion with a two (2) year notice. In the case of termination by either party, the parties recognize the requirement to pay any obligations incurred through the date that the property is vacated, but shall not be responsible for any obligations under the lease past that date.

**18. Address and Notices**

Any and all written notices shall be delivered to the respective parties at the following addresses:

Moriarty-Edgewood School District  
P.O. Box 2000  
Moriarty, NM 87035

Town of Edgewood  
P.O. Box 3610  
Edgewood, NM 87015

**19. Severability**

If any provision of this lease, or any application thereof, shall be declared invalid or unacceptable by any court of competent jurisdiction, the remainder of this lease, and any other application of such provision, shall continue in full force and effect.

**20. Amendments**

It is understood and agreed by and between the parties that this lease shall not be amended except by instrument in writing and approved by Moriarty-Edgewood School District, the Town of Edgewood, and the State Board of Finance.

**21. Applicable Law**

Any dispute regarding this agreement shall be subject to New Mexico law and filed in the 1<sup>st</sup> Judicial District of New Mexico.

**22. Conditions**

This lease is fully conditioned upon the review and acceptance by the State Board of Finance. No obligations under this agreement are binding without such authorization. The Town recognizes and agrees that any improvements made to the property prior to that authorization are conducted at its own risk, and furthermore, that should authorization be denied, the Town has an affirmative obligation to return the premises to its original condition.

**23. Sufficient Appropriations Clause**

The terms of this Lease are contingent upon sufficient appropriations and authorization being made by the New Mexico Legislature and MESD. If sufficient appropriations and authorization are not made by the Legislature and/ or MESD, this Lease shall terminate immediately upon written notice being given by the MESD to the Town. MESD's decision as to whether sufficient appropriations are available shall be accepted by the Town and shall be final.

In Witness whereof the parties hereto have executed this lease agreement on the date written above.

Town of Edgewood

Moriarty-Edgewood School District

\_\_\_\_\_

\_\_\_\_\_

|  
John C. Bassett  
Mayor  
Town of Edgewood

Board President or Authorized  
Representative of the MESD Board

# LORENZO STANTON



PROJECT MANAGER ~

Experienced project manager, analyst, and software developer in the technology industry with expertise in analysis, team leadership, software development, and customer service. Track record of building strong relationships, such as successfully partnering with program managers, analysts, senior management, and engineers to deliver dashboards and analytics for faster business decisions and shorter excursion cycles. Successful in learning new technologies, adapting to an ever changing work environment, solving complex problems, and delivering results that improve organizational productivity.

Key competencies include:

- Project Management
- Team Leadership & Motivation
- Problem Identification and Resolution
- Operations Management
- Business Analysis
- Software Technical Analysis
- Software Development
- System Verification and Testing
- Customer Service and Support
- Multicultural Awareness and Sensitivity

## TECHNICAL SKILLS

<b>PLATFORMS AND LANGUAGES</b>	<b>Operating Systems:</b> Windows OS, Linux, .Net, Mac OS <b>Platforms:</b> VisualStudio .Net, IntelliJ, Eclipse, Mercury LoadRunner, Microsoft SMS Installer, Quick Test Profession Scripting, Telerik, KendoUI, JChartFX, NodeJS <b>Languages:</b> C#, C++, C, Java, JavaScript, TypeScript, SQL, PERL, HTML5, ASP <b>Source Systems:</b> VisualSourcSafe, ClearCase, TeamFoundation Server, GIT
<b>DATABASES USED</b>	Microsoft SQL Server, DB2, Tera Data, Versant (Object-Oriented), Learning (Postgress)
<b>PROTOCOLS</b>	TCP/IP, Blue tooth, and Wireless Networks
<b>SOFTWARE &amp; IT CONCEPTS</b>	Software Development Life cycle, Test Automation, Structured Programming, Object-Oriented Design, Embedded Programming, Front to Back Software Solution, Waterfall, Agile, & SCRUM Project methodologies

## CAREER OVERVIEW

Intel Corporation, Rio Rancho, NM

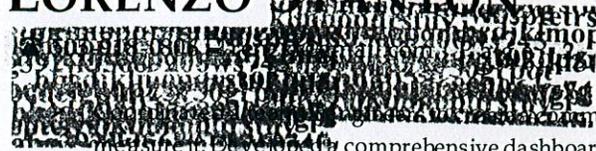
2000-2016

Sr. Systems Analyst, (2014 – 2016)

Partnered with customers to clarify business needs, to convert requirements into technical terms, to develop software solutions, and to deliver end-to-end systems that reduced time-to-market and enabled faster business decisions. Coached customers to improve application usage and drove continual improvements.

- Implemented back-end software to analyze the root cause of chipsets failures. Advised a team in Costa Rica to create self-service dashboards to quickly highlight and fix several problems. This eliminated the need for an excursion and more quickly transitioned the product to the next development cycle.
- Developed regression analysis in SQL for a flag-ship product. This functionality exists in Excel and needed to be implemented in the Post Silicon Verification application. This maximized productivity for yield engineers, enabled real-time updates, and made it easier to share the results with cross-functional teams.
- Created business models for enterprise software licenses to consolidate data from multiple sources while enabling automated data collection. The models made it easier to track existing licenses and reduced the demand for new ones.
- Performed an analysis to reduce the deployment time for post silicon verification. Streamlined processes and implemented software automation to pull data from a single source instead of 9 different locations. Resulted in deployment completing 30% faster.

# LORENZO STANTON



- Developed a common definition for high data quality and the indicators on how to measure it. Developed a comprehensive dashboard to alert yield engineers of data quality problems resulting in the successful identification and resolution of multiple data integrity problems for two chipset products while reducing time-to-market.
- Coordinated a department effort with finance to ensure that the annual budget allocations were accurately recorded in a trustworthy source of record. This fixed a \$300k allocation error for the department and helped the department to optimize its strategic initiatives.
  - Investigated data visualization tools as a replacement for a legacy component. Created and tested 25 API capabilities to find a library to improve developer productivity. Recommended and implemented a replacement that met the requirements, matched the organizational skills, and aligned to the group's budget.

## Operations Manager/Technical Project Manager, Intel Corporation (2008 – 2014)

Orchestrated business operations for a department of 130 employees. Helped senior staff to establish business strategies, aligned employees to priority projects, and drove performance to plan. Fostered key initiatives within and outside of the department.

- Monitored all aspects of budgeting, financial valuations, and reporting. Improved the department's performance to budget quarter after quarter. Reduced the number of monthly operational indicators and saved 16 total hours of preparation each quarter. Transitioned the department to a new resource management application using solid training, comprehensive guides, and easy to use templates.
- Partnered with managers to establish and track system problems, increase software development efficiencies, and better triage customer demand. The end result was a clear and aggregated portfolio review to upper management on a quarterly basis. This improved portfolio visibility and resulted in additional budget allocations for the department.
- Developed a project strategy and formed a team of systems engineers to deliver seven path-to-production server environments. This was implemented flawlessly in the midst of organizational changes where key resources were reassigned, and resulted in saved capital dollars and decreased on-going support expenses.
- Identified software release inefficiencies and initiated a proof of concept to improve it. Directed a small team of engineers to evaluate and implement a buy solution. Reduced release times by 82%, saved 250 hours minimum per year for systems engineers, and improved software release quality.
- Applied new scripting development skills to automate the installation of an enterprise application. This decreased the need to hire an outside contractor and saved departmental dollars for other opportunities. The chosen strategy exceeded customer expectations and reduced support calls by 80%.
- Partnered with a cross-team of engineers to identify the overall demand for contract workers, to aggregate the total IT costs, and to find opportunities to create synergy within IT. The end results were the selection of the most cost effective suppliers and the elimination of redundancy.

## Systems Analyst, Intel Corporation (2005 – 2008)

Act as a liaison between IT and customers in platform groups. Responsible for analysis to develop and to build new systems. Developed and coordinated software verification and performance testing.

- Oversaw a cross-team of engineers to recover a failing requirements management project that was faced with high resource constraints and technical challenges. Overcame technical challenges and partnered with security teams across the company to ensure compliance with control country export laws. Successfully recovered the project and met all negotiated deliverables per the project schedule.
- Developed load test scenarios and scripts to simulate 500 concurrent users for an enterprise application. The scenarios uncovered several application scalability defects. Successfully worked with the vendor to fix the issues, and improved user performance by 70%.
- Discovered a quality assurance gap in a product life cycle program and made a proposal to eliminate a potential problem that would broadside the team's efforts. Developed a comprehensive test strategy and guided a cross-team of resources to find intersection points between changing business processes and new software features. Used various test strategies, 20-25 testers, and clear developer priorities to successfully release every software change. All of the testing logistics were well orchestrated. Support calls remained low, system availability remained high, and customer usage of the system increased.

# LORENZO STANTON

related to object oriented databases and developed several proof of concepts to determine the value of using it within the company. Facilitated several knowledge transfer meetings with engineers, technologists, and external vendors for knowledge sharing and technical clarifications.

## Senior Software Engineer, Intel Corporation (2000 – 2005)

Responsible for the gathering requirements from clients outside of IT, developing software solutions, and delivering high quality systems to improve productivity.

- Applied new skills in device physics to find ways to test flash memory and to force early failures. Reduced the test time 8% and removed a testing step using electrical currents. This increased throughput by 33% for flash memory chips and provide better utilization of a silicon testing tool.
- Applied new skills related to TCP/IP and telephony communications to simplify trunk configurations for telephony platforms. Used C programming language in a Linux/Unix environment to resolve technical issues. Released a beta version of the trunk line configuration tool to a well-known telephone company before the deadline and created a \$3-million-dollar sale.
- Worked on a team with 20 engineers to develop an innovative wireless solution for the medical community. Used C++, COM, and SQL to adjudicate prescriptions over the internet using a hand held device.
- Used C++, SQL, and web technologies to make changes to the factory layout tool. The application traversed CAD layers to display data in a browser. Organized a team to deliver a solution 50% faster than expected and within a limited budget.
- Developed and delivered a professional presentation at the Everything Wireless show. Demonstrated innovated ways to use InfoWave and GPRS to connect to a company's private network and maintain security.
- Ported the NDIS 5.1 driver for .11b MiniPCI card to a windows emulation system running on a PC. This was a proof of concept effort that helped the purchasing department to negotiate a more cost effective contract with an outside vendor.
- Initiated the development of a Blue tooth testing lab. Validated a baseband conformance for a well-known platform and helped the company to avoid a risky product launch. The final release of the laptop platform was wildly successful.

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## EDUCATION

MASTER OF BUSINESS ADMINISTRATION IN GENERAL BUSINESS (MBA)  
Arizona State University, Tempe, AZ

BACHELOR OF SCIENCE IN COMPUTER SCIENCE  
Western Illinois University, Macomb, IL

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## CERTIFICATION

Project Management Professional Certification (PMP)  
Project Management Institute

**RESUME**  
**JAMES H. LEE JR., PHD, P.E.**

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**Name:** **JAMES H. LEE JR., PHD, P.E.** 

**Title:** **Nuclear Engineer**

**Clearance:** Q (Active)

**Education:** Ph.D., Nuclear Engineering, Texas A&M University, 1973  
M.E., Nuclear Engineering, Texas A&M University, 1968  
B.S., Engineering, United States Military Academy, West Point, 1966

**Professional Registrations:** P.E., Nuclear Engineering, Virginia, # 4216162, 1977

**Patent:** U.S. Patent No. 8,126,596; issued 28 February 2012; Inventors: Lee et al  
Title: Apparatus for Inspecting a Group of Containers and Method of Using Same (RADBOTS).

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Dr. Lee has over 47 years of experience as a military commander, military scientific program manager, national laboratory scientist and design engineer, scientific project leader, manager of national laboratory research groups and vice-president of a private research company. His technical expertise includes design and safety analysis of special nuclear power sources for defense and civilian application, nuclear weapons effects to include underground nuclear testing, radiation detection and inspection systems for Homeland Security applications, **and physical protection systems for storage of special nuclear materials as well as civil construction projects while in the US Army Corps of Engineers.**

His technical manager experience includes: successful management of the installation of the first automated logistical system at Fort Knox, Kentucky; leading an Air Force organization in designing the MX missile protective silo; leading a private research company in the design of survivable space power systems for missile defense; leading 80 engineers in the design of a nuclear thermal rocket for NASA and DOD application to include design for the ground test station; managing a \$100M per year research program in space power for missile defense; managing a \$30M program to develop and deploy a large robotic system to remediate underground, high level waste tanks; leading the technical test programs on five underground nuclear weapons effects tests; leading a Los Alamos research group of 45 scientist designing non- weapons nuclear systems; organizing and leading Homeland Security projects to include the Los Alamos and Sandia efforts supporting the DOE Megaports and Second Line of Defense Programs as well as the Department of Homeland Security (DHS) trade lane security demonstration project, Operation Safe Commerce, and serving as a technical Subject Matter Expert (SME) to the Architectural Detection Group of DHS; and leading a 56 person Sandia department providing Machine Operators, IT, maintenance, measurements and calibrations, and financial management for one of the largest machining facilities in the DOE complex to include explosive machining services. He also served in 2010-2012 as the team leader for the two Global Threat Reduction Initiative (GTRI) nuclear security projects completed in Botswana, Africa. While in the 82d Airborne Division, FT Bragg, NC, he led an engineer company in construction of housing for special operations soldiers at Ft Bragg, numerous civic action projects for small villages surrounding Ft Bragg to include roads, civic facilities and athletic fields.

Dr. Lee also served as a United Nations Nuclear Weapons inspector in Iraq in 1998.

**Consulting Scientist to the ARES Corporation developing E-Learning courses for the International Atomic Energy Agency, Vienna, Austria.** Developed original story boards for training courses in radioactive sources safety and nuclear security.

**Professional Project Services, Inc. (Pro2Serve), Edgewood, New Mexico, Senior Nuclear Engineer**

With Pro2Serve, Dr. Lee is applying his extensive experience to U.S. nuclear non-proliferation programs and physical security of nuclear materials under the DOE/ NNSA Global Threat Reduction Program (GTRI). His team completed the two first GTRI security upgrade projects in Botswana, Africa. In addition, Dr. Lee has supported HQDHS/DNDO/AD in the system level analysis of the Global Nuclear Detection Architecture (GNDA) and in developing architecture approaches to countering threats and vulnerabilities to the Maritime element of the GNDA.

**Sandia National Laboratories, Albuquerque, NM, Department Manager, Organization 2433, Machining Services**

Dr. Lee led a department of 56 personnel who provided Project Engineering, Information Technology, Quality Management, Business Support, Technical Fabrication Coordination, Electronic Repair, Mechanical Repair, and Measurements/Calibration support to the Sandia Building 840 Machine Shop. Initiated new programs to update and upgrade the explosive machining facilities, decontaminate Building 867 from Beryllium to support a key Nuclear Weapons Program need and initiated the total redesign and implementation of the business IT systems for a \$30M+/year manufacturing center. Created, developed and won a patent with the Sandia Robotics group for a new class of mobile radiation detectors on container ships for the Department of Homeland Security.

**Sandia National Laboratories, U.S. Army Future Combat Systems (FCS) Project**

Dr. Lee was a team member developing a new modeling and simulation tool (SoSAT) to aid the Army in design of the new FCS Brigade. His key contribution was developing approaches to modeling combat damage and its effect on system availability. He developed entirely new potential applications for the SoSAT tool to allow analysis of the combat effectiveness of foreign ground forces.

**Sandia National Laboratories, Project Leader of the \$8M Operation Safe Commerce (OSC) Phase III program**

Dr. Lee led a team of five Sandians and numerous commercial contractors in supporting the Ports of Los Angeles and Long Beach in developing the requirements, design, technology selection, costing and deployment protocols for a secure container trade lane for ensuring safe container deliveries from the Middle East and South Asia through Singapore to the Ports of Los Angeles and Long Beach. This project successfully on time and on budget demonstrated an end-to-end secure Trade Lane for Department of Homeland Security (DHS). He was a team leader of a Sandia team developing new, optional security architectures for the DHS Domestic Nuclear Detection Office's (DNDO) Secure Freight Initiative. He invented a new detector (RADBOT) for radiation scanning of containers while at sea on large ships.

**Los Alamos National Laboratory, Los Alamos, New Mexico, Project Leader of the DOE Megaports project**

This project had the objective of deterring, detecting and interdicting illicit trafficking in special nuclear and other radioactive materials. This DOE program deployed sensitive radiation detection equipment to the major container ports of the world. Dr. Lee was responsible at LANL for creating the project and assembling the technical staff, developing and executing project budget, developing and training deployment teams for approximately 32 world ports. He led new detector development and deployment projects for Megaports Program. He conducted detector equipment evaluation projects for Megaports Program. He led the inter-laboratory planning and costing team for Operational Testing and Evaluation (OT&E) for Megaports.

This project was funded for LANL at \$7.0M for FY05 and 06. Accomplishments in the first year include design, development and testing a new class of mobile detector systems based on a Straddle Carrier for container ports; he organized and trained several detector equipment teams for surveys and deployments of radiation monitors at many of the world's Megaports; he created a radiation transport modeling (MCNPX) team to support effective equipment deployment at Megaports; and led the creation of a Mobile Radioisotope Identification Detector (RIID) system tested at Algeciras Port, Spain.

**Los Alamos National Laboratory, Project Leader at LANL for the NASA Jupiter Icy Moons Orbiter.** Dr. Lee prepared and developed cost proposals, organized a team and won initial funding of \$6.3M for support of NASA's Jupiter Icy Moons Orbiter (JIMO). He created a new 12-person LANL Design Team for Space Reactors. He led the team in delivery of the best design textbook on space reactor design produced in this country in 40 years. Dr. Lee provided direct, on-site support to the JPL JIMO office during the crucial spacecraft conceptual development phase. He was responsible with ORNL to DOE/NE for costing the development and testing of nuclear technologies for the JIMO reactor system. Additionally, he created and developed a program plan for a four-year, \$150M space reactor demonstration project for a DOD Agency at their request.

As part of a LANL/Sandia Labs team, he prepared proposals for a breakthrough DOD power system. He briefed these proposals to the Deputy Sec of Defense levels.

**Los Alamos National Laboratory, Group Leader of D-10, Nuclear Systems Design Group.** This group consisted of over 40 technical analysis personnel supporting: the Nuclear Regulatory Commission with thermal-hydraulic analysis for power reactor safety; DOE/NE with design and safety analysis for the new Advanced Accelerator Applications (AAA) Program; NASA/Marshall Space Flight Center with design, hardware, and testing for new space reactor concepts; DOE/MD with design review of the to be constructed MOX fuel facility at Savannah River Site; DOE/NE-50 on new concepts for space reactors and Mars surface power sources; DTRA in the design and safety validation for the Russian Fissile Materials Storage Facility (RFMSF) at MAYAK, Russia; and, DoD for other small reactor projects.

Dr. Lee served as a site inspector for the LANL Second Line of Defense Program. He led a multi-lab team in performing a Vulnerability Assessment of the Physical Protection System for the Russian Storage facility for Plutonium built by the US to aid the Russians in safe guarding 100 metric tons of Plutonium. He performed personal research in unique, small reactors for DoD application.

**Sandia National Laboratories, Albuquerque, New Mexico, Manager of the High Power Electro-magnetics Department**

Dr. Lee supervised 20 personnel in the development of beyond the state of the art microwave devices in various applications for DoD customers. He created and developed proposals and marketed a major Initiatives for Proliferation Prevention Thrust II program for the Russian nuclear closed city – Krasnoyarsk 26. This program, to create a Tank Retrieval and Closure Demonstration Center (TRCDC), was approved by NN-40 for \$1.5M and became the crucial first effort in the overall Sandia strategy to accelerate the conversion of K-26 to proliferation friendly operations. He completed the design, development and testing of the first weapons grade Plutonium Storage Vault at K-26 under the Material Protection Control & Accountability (MPC&A) Program.

**Sandia National Laboratories, Department Manager.** Dr. Lee led 12 personnel involved in accident and consequence analysis for a variety of customers including the Nuclear Regulatory Commission as well as the DOE/DP. Major projects included risk assessment for commercial power reactors and safety assessments in support of the Sandia Independent Safety Organization and the Nuclear Weapons Program at Sandia Labs. He continued as the SNL project leader for the nuclear material protection efforts at Krasnoyarsk-26 with the mission of providing Physical Protection Upgrades to a site with multiple metric tons of weapons grade Plutonium and an annual budget of \$ 3.2M. He received praise from HQ DOE on success in Physical Protection Programs at K-26. He was project leader for two Initiatives for Proliferation Prevention (IPP) projects involving the consortium of Russian Radiochemistry Institutes.

Dr. Lee served two months in Iraq in 1998 as a National Expert on the IAEA Iraq Action team. He was cited for setting a new standard of technical excellence in the ongoing monitoring and verification of the Iraqi Nuclear Weapons Program. He personally discovered new portions of the Iraq Nuclear program related to neutron sources.

He served as a consultant to DOE EM-50 on High Level Waste Tank retrieval and closure activities.

**Sandia National Labs, Department Manager.** Dr. Lee was Program Manager for the \$9M Retrieval and Closure Program of the DOE EM-50 Tanks Focus Area at Hanford, Washington and other DOE sites. This program developed state of the art environmental cleanup technologies for use in High Level Waste (HLW) Tanks. Included are the first deployment of the Light Duty Utility Arm System (LDUA) (deployed in Sept 96) in an actual HLW tank at Hanford, deployment of the LDUA and a Confined Sluicing End Effector (CSEE) at ORNL (deployed in June 97), and the Cleaning and Closing of a tank at SRS ( Tank 20 at SRS; started closure in May 97).

Additionally, he served in FY97 as the SNL lead scientist for Material, Protection, Control, and Accountability (MPC&A) projects at two Russian Sites (Krasnoyarsk-26 and Krasnoyarsk-45). The SNL budget for these two sites was approximately \$1.5M per year in FY97 and \$3M for FY98. These projects are focused on upgrading physical protection systems for large caches of weapons grade materials in Russia.

He additionally served concurrently as Acting Manager for the Sandia Systems Reliability Department.

Dr. Lee created in 1997 a private consortium of six Russian Radiochemistry Institutes and Sandia Labs to pursue High Level Waste Tank Remediation business in the U.S. DOE Complex.

**Sandia National Laboratories with duty assignment at the DOE Hanford Site.** Dr. Lee was Program Element Manager for Retrieval Programs in the Technology Development Program Office of the Tank Waste Remediation System (TWRS). He developed Technology Programs to safely and cost-effectively remove 61 million gallons of highly radioactive nuclear waste from 177 underground high level waste storage tanks. Focus was on reducing the projected \$10B Retrieval cost for this site while successfully removing 99% of the stored waste. In October 1994 he was selected in as one of the lead scientists for the new DOE National Tank High Level Waste Focus Program with emphasis on defining, designing and executing Retrieval and Closure strategies for the High Level Tank Waste Storage Systems at four major DOE sites. In May 1995 he was selected as the Technology Integration Manager for both Retrieval and Closure with responsibility for the planning and execution of a \$12M program to: deliver a new robotic arm tank cleaning system, to develop and deliver new retrieval and characterization end effectors for use with this arm; and, to clean and close a waste tank at Savannah River Site.

The first of these state-of-the-art robotic arms was successfully delivered on time and budget to the Hanford site in April 1996 meeting a Secretary of Energy to the President of the U.S. program milestone. This Program also received a DOE Outstanding Rating for FY95.

**Sandia National Laboratories, Department Manager for the Space Nuclear Power Department.** Dr. Lee was the manager for 15 research personnel and a budget of over \$4M in the area of space power sources and radiation hardened electronics. He was the Manager of Program Development for the Sandia Nuclear Energy Technology Center, 6400. He was responsible for initiating new research programs in such diverse areas as Silicon Carbide Electronics, Risk Assessment applied to non-nuclear systems, Decontamination and Decommissioning of Nuclear Power plants, and others.

**Sandia National Laboratories, on assignment to the U.S. Air Force Phillips Laboratory, Albuquerque, New Mexico.** Dr. Lee was Project Manager for the \$70M Russian Topaz Reactor Flight Project. He was responsible for acquisition, safety analysis to obtain launch approval, directing system modifications to meet U.S. flight and safety standards, and conducting flight qualification and delivery of a Russian Space Reactor, Topaz II, to the NASA Nuclear Electric Propulsion Space experiment spacecraft. He directed the technical efforts of over 50 personnel. TOPAZ team members included personnel from Los Alamos, Sandia National Labs, the Air Force Phillips Laboratory, three Russian Institutes and several private U.S. companies.

Dr. Lee produced a Preliminary Safety Assessment of the flight mission and conducted a detailed Concept Design Review for needed reactor modifications. He developed statements of work, developed cost estimates, and negotiated contracts with U.S. laboratories and Russian Institutes.

He met challenges of difficult customer interfaces with Russian Institutes, DOD, DOE, OMB, Congressional Staff, the U.S. Ambassador to Russia, and National Space Council.

**Sandia National Laboratories, Department Supervisor for the Space Nuclear Power and Safety Group.** Dr. Lee led research at SNL focused on thermionic space nuclear reactors and space reactor safety. He was a consultant to the Strategic Defense Initiative Organization on space power technology, international aspects of use of space nuclear power and orbital debris.

Dr. Lee was project manager for the design, development and construction project for a special purpose facility to test nuclear fuel elements for the Space Nuclear Thermal Propulsion (SNTP) program. This facility (PIPET) was also designed for ground based testing of various nuclear rocket concepts. He supervised 80 technical and support personnel from laboratories and commercial companies on this project. He led this team in a highly successful effort to design this nuclear test facility to a 20,000 page Preliminary Design Review (PDR) level of detail in February 1992. He received a Sandia Award for Excellence for PIPET Leadership and success.

Dr. Lee was an active interface with various levels of DOD, DOE, NASA, OMB and National Space Council.

**Sandia National Laboratories, Assigned to the Strategic Defense Initiative Organization (SDIO), Pentagon, Washington, D.C.** Dr. Lee served as the Technical Adviser and Deputy Program Manager for the SDIO Power and Power Technologies Program. The Power and Power Technologies Program had an annual budget of ~ \$100M, was at the forefront of worldwide development of power technologies, and was an essential element of major national defense initiative.

He was responsible to the SDIO Power Program Manager for budget planning and execution. He was Program Manager for the SDIO survivable, solar, space power program, SUPER.

While at SDIO, he served as a member of a technical delegation to the United Nations on the safety of space nuclear power.

He represented the Department of Defense and SDIO on two delegations to the Soviet Union to negotiate the purchase and transfer of the TOPAZ space nuclear power source. He supported the Interagency Committees reviewing U.S. policy of acquisition of Soviet technology.

**S-Cubed, a Division of Maxwell Laboratories, Albuquerque, NM, Vice President**

Dr. Lee supervised over 50 scientists, engineers, technicians, and support personnel as well as over \$6.5M in research per year. Research areas included design of special instruments for Underground Nuclear Tests (UGT), state-of-the-art environment monitoring systems, expert computer systems and system survivability studies of SDIO space platforms.

Initial work involved survivability analysis for the Strategic Defense Initiative Organization (SDIO), and analysis of special purpose terrestrial nuclear power sources for the Defense Nuclear Agency. He was personally designated in 1987 by SDIO as the focal point for all survivability issues associated with prime power systems.

He established a new 18 person research group investigating design, safety, and survivability of special space and terrestrial power sources.

He served as a technical editor to DOE/DP-3 to review the first major study on the Modernization of the U.S. Nuclear Weapons Complex.

**Sandia National Laboratories, Albuquerque, New Mexico, Member of the Technical Staff**

Dr. Lee was leader of the Independent Safety Group for the National Space Reactor Program, SP-100. Safety analysis of space reactor during on-orbit accidents was emphasized. He performed detailed analysis of on-orbit loss of cooling events for the SP-100 reactor.

He also led a major independent assessment of a small reactor for DoD terrestrial application. The study team consisted of 11 experts from three national laboratories and private industry. The study reviewed the neutronic and thermodynamic design of the power system, its inherent safety, its development costs, and the length of its development program. The results of this highly successful independent assessment were briefed to the Assistant Secretary of Defense, C3I.

**Served as a commissioned officer in both the Army and Air Force**

Dr. Lee's career included a variety of challenging leadership and technical positions:

- Prior to retirement in 1986, served in the Chief of Technical Directors for the **Defense Nuclear Agency (DNA)** (now DTRA) underground (UGT) and above ground testing (AGT) programs. Managed 14 Technical Directors responsible for the experimental programs on six DNA weapons effects tests both above ground (HE) and below ground (UGT's).
- Served as a scientific program manager and line manager at the **Air Force Weapons Laboratory** (now Air Force Research Laboratory). Led the Air Force group that performed independent nuclear safety analysis of NASA Galileo and Ulysses missions due to their use of a radioisotope, thermoelectric generators (RTG).
- Served as a member of the National Space Reactor Safety Advisory Committee for two years. Managed the Air Force's Phase I and II Nuclear Weapons Development Activity from 1982-1984. Initiated a new nuclear weapons study to replace the existing SRAM nuclear weapon system.
- Developed, organized and executed several large (>\$10M/year) experimental hardened missile silo programs in support of the Air Force MX program. Led numerous experimental efforts to define the nuclear air blast, ground shock and crater environments for DNA.
- Organized and led two major national study efforts which included up to eight DOE laboratories and three Air Force Laboratories to define power options to support the emerging Strategic Defense Initiative (1984) and terrestrial nuclear power options to support Deep Basing of Strategic Missiles.
- **Student, U.S. Air Force Command and Staff College.** Highly competitive selection as a resident student in the Air Force premier school for mid career officers. Special research award and Distinguished Graduate in 1980.
- Successful in ever-increasing positions of **U.S. Army command and leadership.** U.S. Army Airborne/Ranger. Commanded three combat units of the United States Army to include its original tank company, a combat engineer company in the 82nd Airborne Division and a 360 man troop of the 10th U.S. Cavalry engaged in combat in the Republic of Vietnam. Often cited for leadership excellence, promoted ahead of contemporaries to the rank of Major and was awarded two Bronze Stars while in Vietnam.
- **As an Army engineer officer was responsible for planning, design, costing and construction of numerous roads, airfield extensions and modifications, facilities and small bridges on military installations and in surrounding communities.**

- Military career also included such leadership, management, and technical positions as Director of the Computer Center for Fort Knox, Kentucky; Engineering Staff Officer, XVIII Airborne Corps, Fort Bragg, North Carolina; and Assistant Professor of Nuclear Physics at the United States Military Academy (West Point).
- At West Point was recognized as one of the two outstanding faculty members from over 600 professors and instructors in 1979.
- Recognized for academic excellence by receiving an Atomic Energy Commission Special Fellowship in Nuclear Science and engineering in 1966.

**Professional History**

Independent Consultant to the DOE, DOD and NASA from 2009 to present.

Pro2Serve- June 2009 to present  
*Technical Expert II*

Sandia National Laboratories-Oct 2005 to June 2009  
*Department Manager*

Los Alamos National Laboratories- July 2000 to October 2005  
*Research Group Leader*

Sandia National Laboratories- April 1990 to July 2000  
*Department Manager*

S-Cubed/Maxwell Laboratories- May 1987 to April 1990  
*Vice-President*

Sandia National Laboratories- May 1986 to May 1987  
*Member of the Technical Staff*

United States Air Force- August 1979 to June 1986  
*Lt. Colonel*

United States Army- June 1966 to August 1979  
*Major*

**Professional Training**

U.S. Army Airborne School, 1966

U.S. Army Ranger School, 1970

U.S. Army Engineer Officer Advanced Course, 1973

U.S. Air Force Command and General Staff College, 1979

**Professional Associations**

American Nuclear Society

**Awards/Honors:**

Atomic Energy Commission (now DOE) Special Fellowship in Nuclear Science and Engineering, 1966.

Distinguished Graduate, U.S. Air Force Command and General Staff College, 1980.

Two Bronze Star Medals – Vietnam 1970-1971

**Special Skills**

Nuclear reactor safety and Nuclear Non-proliferation-teaching and systems designs

**Publications**

- "Anisotropic Scattering Corrections to the Eigenvalues and Extrapolated End-point in the P3- Approximation of Neutron Transport Theory," Nuclear Science and Engineering, November, 1969.
- "Stress Analysis in Cylindrical Pressure Vessels," Award winning paper presented to the American Nuclear Society Student Conference, Tucson, AZ, March, 1968.
- Strength of Materials and Beam Design. Textbook, Engineering Design Division, U.S. Army Engineer School, Fort Belvoir, VA, 1973.
- "Extension of the Theory of Vibrating Plate-Type Nuclear Reactor Fuel Elements," Ph.D. Dissertation, Texas A&M, 1973.
- "Nuclear Power for Deep Basing of Missiles, "Proceedings of the National Academy of Sciences Committee on Advanced Compact Reactors for Military Application," Washington, D.C., November, 1982.
- "Space Nuclear Power: A Summary of the State-of-the-Art," Transactions, American Nuclear Society Winter Meeting, Washington, DC, November, 1982.
- "Safety Issues for Space Nuclear Power," Proceedings of the Air Force Office of Scientific Research's Symposium on Space Prime Power, Norfolk, VA, February, 1982.
- "The Role of Solid Damping in Fluid-Structure Interaction," Proceedings, Symposium on Recent Advances in Fluid-Structure Interaction. ASME, San Antonio, TX, June, 1984.
- "Strategic Defense Initiative Organization Multi-Megawatt Space Prime Power Technology Development Plan," (Classified SECRET), Sandia National Laboratories Report, RS6432/84/046, July, 1984.
- "Nuclear Power for Deep Basing: A Comparative Study," Air Force Weapons Laboratory, AFWL TR 84-121, 1984.
- "AFWL Design for a Multi-Megawatt Space Reactor," (Classified SECRET), Air Force Weapons Laboratory, AFWL TR 84-104, 1984.
- "An Approach to Space Reactor System Selection and Design," Proceedings: First Symposium on Space Nuclear Power, University of New Mexico, Albuquerque, NM, January, 1984.
- "Some Thoughts on the Commercial Use of Reactors in Space," Proceedings of the 21st Intersociety Energy Conversion Engineering Conference, 1986.
- "Inherently Safe Space Reactors," Proceedings of the Fourth University of New Mexico Symposium on Space Nuclear Power, Sandia Report 86-2279A, January, 1987.
- Independent Assessment of Project DISTANT HUNT. SNLA Report SAND87-2785, December, 1987.
- "Analysis of SP-100 Environment Interactions," S-Cubed Report, SSS-R-88-9197, S-Cubed, December, 1987.

"Power Systems Survivability (Unclassified)," S-Cubed Report to AFWL, SSS-CDPR-89-10187, Classified (S/RD/NOFORN/WNINTEL), February, 1989.

"Survivability Assessment of SP-100," paper, University of New Mexico Nuclear Power Symposium, January, 1989.

"Multi-Megawatt Space Reactor Survivability Studies," Final Contractual Report to Grumman Aerospace, S-Cubed Document, February, 1989.

"Project SIREN: Technology and Infrastructure for Space Nuclear Disposal and Debris Management," Report to the Strategic Defense Organization, October 1989.

"Technology Requirements for the Disposal of Space Nuclear Power Sources and Implications for Space Debris Management Strategies," American Institute of Aeronautics and Astronautics (AIAA) Conference on Orbital Debris, 16-19 April 1990, paper number 90-1368.

"NSPWG-Recommended Safety Requirements and Guidelines for SEI Nuclear Propulsion," AIAA/SAE/ASME/ASEE 28th Joint Propulsion Conference, 6-8 July 1992, Nashville, TN, Paper AIAA 92-3697.

Preliminary Design Considerations for Safe, On-Orbit Operations of Space Nuclear reactors. SNLA Report, SAND87-0865, 1994.

"Aerospace Nuclear Safety: An Introduction and Historical Overview," International Topical Meeting- Advanced Reactor Safety, American Nuclear Society, Pittsburgh, Pennsylvania, April 17-21, 1994.

Tank Waste Remediation System Integrated Technology Plan, DOE/RL-92-61, Rev. 2; PNL-10092, Rev. 1; February 28, 1995. (10 authors)

Commercial Experience with Facility Deactivation to Safe Storage, Sandia Report SAND96-2255, September 1996.

"Light Duty Utility Arm System: A Case Study of Technology Deployment," Paper # 86, American Chemical Society Industrial and Chemistry Division, Fall Meeting, Las Vegas, Nevada, September 1997.

"Material Protection, Control, and Accounting Enhancements at the Mining and Chemical Combine Through the Russian / U.S. Cooperative MPC&A Program," 38th Annual Meeting of the Institute of Nuclear Materials Management, Phoenix, AZ, July 20-24, 1997.

"Retrieval of Sludge from an Iraqi Tank," American Nuclear Society Topical Meeting on Robotics and Remote Systems, Pittsburgh, PA., April 1999.

"Technical Alternatives to Reduce Risk in the Hanford Tank Waste Remediation System Phase I Privatization Project," U.S. Department of Energy, Tanks Focus Area, DOE/EM-0493, September 1999.

"Old Myths and New Realities: A 21<sup>st</sup> century Space Reactor Cost Estimate," Space Technology & Applications International Forum (STAIF-2002), Albuquerque, NM, February 2002.

"The History of Space Nuclear Power," Space Technology & Applications International Forum (STAIF-2002), Albuquerque, NM, February 2002.

"Concept for a Small Mars Surface Fission Power System," Sandia Report, SAND2002-1926, July 2003, Ronald Lipinski, et al.

"The RFMSF Safeguards Report, Volume I: Evaluation of the Safeguards Capability of the Russian Fissile Material Storage Facility," LA-CP-03-0968, 2004, Mark Mullen, et al.

"Jupiter Icy Moons Orbiter Reactor Module Design and Development, Rev. 1," LA-CP-04-0341, April 2004, Dave Poston, et al.

"Optimizing Nuclear Threat Detection and Interdiction at Megaports Using Mobile RIIDs (Radiation Isotopic Identifiers), LA-CP-0500341, March 2005, Horley and Lee.

"Operation Safe Commerce Phase III Singapore to Port of Los Angeles/Port of Long Beach Trade Lane: Final Report," Sandia National Laboratories, International Ports and Maritime Security Department, December 31, 2006.

"Robotic System for At-Sea Detection of Nuclear Materials," Sandia Report/Patent , June 2007, Jon Salton and James Lee, authors.

\* Most of these publications were written with co-authors

“The History of Space Nuclear Power,” Space Technology & Applications International Forum (STAIF-2002), Albuquerque, NM, February 2002.

“Concept for a Small Mars Surface Fission Power System,” Sandia Report, SAND2002-1926, July 2003, Ronald Lipinski, et al.

“The RFMSF Safeguards Report, Volume I: Evaluation of the Safeguards Capability of the Russian Fissile Material Storage Facility,” LA-CP-03-0968, 2004, Mark Mullen, et al.

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“Optimizing Nuclear Threat Detection and Interdiction at Megaports Using Mobile RIIDs (Radiation Isotopic Identifiers), LA-CP-0500341, March 2005, Horley and Lee.

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