

CONFIDENTIAL

Alan Painter, Director and President

Alan Painter, Director and President of D&Y Laboratories Inc. is also Chairman and Chief Executive Officer of Alrino Energy Corporation developing both Oil and Gas and Wind Energy properties, and Pacific Charter Financial Services Corporation ("Pacific Charter") providing management and investment banking services to the Company and other clients. Pacific Charter structures corporate bond transactions and performs implementation and administration functions for its clients.

Alan has owned, operated, and invested in a variety of businesses including operating a chain of newspapers in the Northwest (Seattle/Tacoma, Washington), as Mid Cities Publishing; he also built homes under the name of Cascade Homes, and operated on the Continent as a major buyer of crude oil with Conexx Oil corporation in London, England. Since 1984, he has headed an investment group for the purpose of investing in a diversified portfolio of businesses for its own account, and has served as interim officer and/or director for various companies. Alan has an extensive background in international business, finance, and banking.



Alan Painter, Director and President of D&Y
Laboratories

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AGENCY BONDS

A Brief Explanation by Alan Painter

Agency bonds are issued by either agencies of the United States Government or government sponsored enterprises (GSEs), which are federally chartered corporations. Agency and GSE bonds are one way to create more diversified portfolio without assuming excessive credit or inflation risk for institutions and trusts.

In the world of fixed-income securities, agency bonds represent one of the safest investments, and are often compared to treasury bonds (T-bonds) for their low risk and high liquidity. But unlike Treasury bonds, which are issued only the Department of the Treasury, agency bonds come from several sources, including not only government agencies, *but also by certain corporations* granted by the government.

Not all agency bonds are issued by government agencies. Indeed the largest issuers are not agencies per se, but rather government sponsored entities (GSEs). This is an important distinction as true agencies are explicitly backed by the full faith and credit of the U.S. Government (making that risk of default virtually as low as Treasury bonds), while GSEs are private corporations that hold government charters granted because *their activities are deemed important to public policy. This includes transportation.*

New issue agency and GSE bonds:

New issue bonds are typically sold through qualified broker-dealers, who purchase them in large blocks generally \$1 Billion, plus. These *securities* are then made available to us with projects that benefit the public.

Although they carry a government guarantee implied or explicit, agency bonds trade at a yield premium (spread) above comparable treasury bonds.

Among other things, these corporations provide home loans, farm loans, student loans and help finance international trade. Because the government places special emphasis on these activities by granting charters in the first place, the market generally believes that the government would not allow charter-holding firms to fail- thus providing an implicit guarantee in GSE debt. Although agency bond trades recognize this distinction between true agencies and GSE when buying or selling bonds, nevertheless yields for both types of debt tend to be virtually identical.

Alan Painter, Chairman and CEO OF Pacific Charter Financial Services Corporation.

CEO and Chief Executive Officer. Past President of Connex Oil, United Kingdom. Alan Painter has an extensive background in international business, finance, and banking and has owned, operated, and invested in a variety of businesses including operating a chain of newspapers in the Northwest (Seattle/Tacoma, Washington), as Mid Cities Publishing; built over 5,000 homes in three states under the name of Cascade Homes, Co-Developed two hotels (Banyon and Monach) in the State of Hawaii, as well as introduced time share, as well as helped the State of Hawaii write the Time Share Legislation. Operated on the Continent as a major buyer of crude oil with offices in London. Alan has been an investor in television stations, films, and television production. Since 1984, he has headed investment groups for the purpose of investing in a diversified businesses for each group's own account and has served as interim officer and/or director for various companies. At the current time is President and a Director of D & Y Laboratories, Inc., producers of solid water crystals. Mr. Painter is also Chairman and Chief Executive Officer and half owner of Pacific Charter Financial Services Corporation ("Pacific Charter") structuring corporate bond transactions now through our new platform, Riskgardian.

Expanded information:

Learned bond origination and financing working at Bache & Company, New York in my twenties. I was fortunate to work directly under Mr. Harold Bache for some 3 years originating and funding bonds for client companies.

Nano Life Sciences, Inc. Engagement approximately 3 years. 2004-2007 The Company had been trying to raise \$2.5 Billion for Antiproton Treatment without success, which would be the first antiproton (Antimatter Accelerator) in the world on a commercial platform to successfully destroy Tumor cancer without collateral damage.

We undertook to (1) restructure their anti-proton concept by converting the Company's business plan and 506 Offering to developing Proton Treatment Centers that could be converted later into anti-proton centers (a Patent was later granted for this technology) (See excerpts from the Practical Path attachment). During that time we accomplished the following:

Raised: \$35,000,000 thru Reg. D, 506 Private Placement, plus Phase 1 requiring \$2.5 Billion Bond approval with collateral underwriting. Served as Director and President and COO of the Nano Life Institute.

Connex Oil Corporation (London, England) 3-5 years. Arranged and brokered Oil transactions representing Continental and Exxon Oil Companies on the continent s. Sole signatory on account, transacting over the term in the billions of dollars.

MGM/United Arts (UA) Communications Company. (1990) Requested by Mr. Kirk Kerkorian (a personal friend (deceased) to aid Mr. Giacarlo Parretti to establish bond underwriting (over \$1

Billion (US) for the purchase of MGM. Underwriting and financing arranged, although Mr. Parretti chose financing from an Italian source.

D & Y Laboratories, Inc., and Subsidiaries: Double Helix Water, Inc., and Eco Perfect Petro, Inc. Originally engaged (2008, - 2010) to assist in the development of the company and raise capital. We have served D & Y for the past 3 years as Director and President. Helen as Secretary-Treasurer, of D & Y and its subsidiaries. See reference from Ian Gann, CEO of the company.

The Company's subsidiary, Double Helix Water is sold by the company to medical professionals. It is also available on Amazon.Com and thru distributors. It currently has over 1,400 medical professionals prescribing the products, Double Helix Water. Websites are dandylaboratories.com and doublehelixwater.com.

Note: In some cases we are unsure of the exact dating since I have had a business career of over 70 years. As we discussed, most other notable projects we have been involved with or financed over the years, we are not at liberty to discuss or provide information.



Leib Orlanski

Partner

Los Angeles
+1.310.552.5044
Fax +1.310.552.5001

Primary Practice

Private Equity

Secondary Practices

Capital Markets
Corporate Governance
Corporate M&A
Emerging Growth and Venture Capital
Mergers & Acquisitions

Education

J.D., University of Southern California Law School, 1967, (*Order of the Coif*; Editor, *Southern California Law Review*)

B.A., University of California at Los Angeles (UCLA), 1964

Admissions

Bar of California

Professional Background

Mr. Orlanski is a member of The Aerospace and Defense Forum and Association for Corporate Growth (ACG). He has been a member of the State Bar Corporation Committee; a Lecturer, California Continuing Education of the Bar; Los Angeles County Bar Association Annual Update on Developments in Securities Law; he has been a member of the Corporation Commissioner's Blue Ribbon Adversary Committee, and a Lecturer and Chairman for the University of California, Los Angeles Extension Courses on "Going Public," and "Off-Balance-Sheet Financing."

Mr. Orlanski has been a member of the Federal Regulation of Securities – Business and Corporation Law Subsection of the Los Angeles County Bar Association, is a former member of the Executive Committee of the Caltech/MIT Enterprise Forum, and a co-founder of the Acorn Angels, a network of high technology and Internet investors. He was a director of elab.com of Camarillo, California, a venture backed Internet software provider for labor management, Simeus Foods International, a Texas based meat processor, and is currently a director of Gamecolony.com, an on-line chess tournament company. Mr. Orlanski was also a member of the Ernst & Young Entrepreneur of the Year Selection Committee for Los Angeles.

Speaking Engagements

Mr. Orlanski has spoken extensively on corporate topics. Recent speaking engagements include the following:

"Acquisition Due Diligence," webinar presented by Expert Webcast, 2014
"Drafting M&A Purchase Price Adjustment Clauses," webinar presented by Stratford, 2014
"Raising Capital for Companies," webinar presented by Expert Webcast, 2014

Publications

Should You Sell Shares or Assets?
Business Transition & Exit Planning (online edition)
Articles
Spring 2015

Purchase Price Adjustments in an M&A Transaction
ACC-SoCal News & Updates and Transaction Advisors (online edition)
Articles
July 2014

What Companies Need to Know about Restricted and Unrestricted Stock Plans
Co-author with Gregory Hartker.
ACC-SoCal News & Updates
Articles
April 2011

Where to Buy in Energy
Articles
Fall 2006

Grey Area: Qualifying for Private Equity
American Venture
Articles
September 2004

What is Different About Going Public in 2004?
American Venture
Articles
July 2004

Firm Overview



K&L Gates LLP comprises approximately 2,000 lawyers who practice in fully integrated offices located on five continents: Anchorage, Austin, Beijing, Berlin, Boston, Brisbane, Brussels, Charleston, Charlotte, Chicago, Dallas, Doha, Dubai, Fort Worth, Frankfurt, Harrisburg, Hong Kong, Houston, London, Los Angeles, Melbourne, Miami, Milan, Munich, Newark, New York, Orange County, Palo Alto, Paris, Perth, Pittsburgh, Portland, Raleigh, Research Triangle Park, San Francisco, São Paulo, Seattle, Seoul, Shanghai, Singapore, Sydney, Taipei, Tokyo, Warsaw, Washington and Wilmington.

Our Global Platform

K&L Gates represents leading global corporations, growth and middle-market companies, capital markets participants and entrepreneurs in every major industry group as well as public sector entities, educational institutions, philanthropic organizations and individuals. Our practice is a robust full market practice — cutting edge, complex and dynamic, at once regional, national and international in scope. Over each of the last six years our revenues exceeded \$1 Billion.

In addition to numerous specific recognitions of the firm's partners, practices, offices and markets, our recent firmwide recognitions include:

In 2015, the UK-based market research firm Acritas, acting under the auspices of the Managing Partners' Forum (MPF), ranked K&L Gates as one of the five best performing brands in the global legal industry. For a second consecutive year, K&L Gates was recognized among the top 10 strongest U.S. law firm brands in legal market research company Acritas' U.S. Law Firm Brand Index 2016. The firm has been ranked among Acritas' top U.S. law firm brands since the index began in 2012, with the firm first moving into the top 10 in 2015.

K&L Gates was awarded a Top 10 ranking in the 2016 BTI Client Service 30 for the second consecutive year. The ranking recognizes leading law firms in driving superior client relationships according to general counsel. K&L Gates is one of only six firms out of 650 to rank in the top 10 for client service in each of the last two years, and 2016 marks the fourth consecutive year that K&L Gates has been included in this prestigious ranking.

In 2015, Chambers USA awarded K&L Gates as an Outstanding Firm for Furthering Women's Advancement (Recruitment, Retention and Advancement).

In 2015, *The Financial Times* noted K&L Gates as a Highly Commended firm in the Compliance & Technology category of its North America Innovative Lawyers report, specifically recognizing the groundbreaking client-focused digital content site K&L Gates HUB. The firm was also commended for its Cyber Civil Rights Legal Project.

K&L Gates was shortlisted by *The American Lawyer* magazine and UK-based general counsel as 2015 U.S. Law Firm of the Year in the publication's inaugural Transatlantic Legal Awards, presented in London.

In 2013, K&L Gates was selected as "Law Firm of the Year" by *Mergers & Acquisitions* magazine, as part of their M&A Mid-Market Awards. This prestigious award recognized K&L Gates for its strong performance in 2012 and its global approach to middle market mergers and acquisitions, as well as the firm's continued growth into new international markets.

K&L Gates received a Top 15 ranking in the 2016 BTI Brand Elite: Client Perceptions of the Best-Branded Law Firms for the third consecutive year, ranking 11th out of more than 400 firms. The "Brand Elite" includes 28 law firms with the biggest imprint on corporate counsel.

K&L Gates was one of two firms to have earned 45 national first-tier rankings —the highest number of national first-tier rankings among more than 12,700 firms—in the 2016 U.S. News-Best Lawyers "Best Law Firms" survey. Full rankings included nearly 190 metropolitan and state first-tier rankings. The firm also was honored for a third consecutive year as the "Law Firm of the Year" for Securities Regulation.

For the fifth year in a row, K&L Gates was ranked by Law360 in the publication's 2015 Global 20 survey as one of the "20 law firms that had the

biggest global presence and handled the largest, significant and groundbreaking international and cross-border matters over the past year.” The October 2010 issue of *The American Lawyer* ranked K&L Gates first among the “Global 100” in the Recession Performance Index, which measured compound annual growth rate of revenue, revenue per lawyer, profits per partner, and lawyer headcount during the period of the Great Recession (2007 to 2009).

In 2016, Yale Law Women named K&L Gates as one of the Top 10 Family Friendly Firms. The ranking is based on consideration of law firm policies relating to part-time and flex-time options; parental leave and family accommodations; gender equity; billing requirements; and professional development opportunities.

Northern California Railroad
Corporation
Work Scope

Schedule for use of \$10,000,000 Budget
Budget for Submittal to Surface Transportation Board (STB) in WDC - and Gain Acceptance of Application
Use is 60% Operations & 40% Collateral

Admin	Months												Total
	1	2	3	4	5	6	7	8	9	10	11	12	
1.1 Organize - NCR Website & Maint	\$50,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$105,000
1.2 Prepare-Execute All Contracts	\$10,000	\$10,000	\$10,000	\$10,000		\$10,000			\$5,000				\$55,000
1.3 Communication Management	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$60,000
1.4 Set up Admin. Support Office, Phone, Email, Banking	\$30,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$140,000
1.5 OLA Tech Project Mgmt & Monthly Rpts	\$100,000	\$80,000	\$80,000	\$80,000	\$80,000	\$80,000	\$80,000	\$80,000	\$80,000	\$80,000	\$80,000	\$80,000	\$980,000
1.6 Contract - Market Analysis			\$50,000	\$50,000									\$100,000
1.7 Contract - Operations Analysis						\$50,000	\$50,000						\$100,000
1.8 Contract - L. Mallon Assoc	\$100,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$650,000
1.9 Contract - Attorney Chicago			\$20,000						\$20,000		\$20,000		\$60,000
1.10 Contract - Surveys/Lands/Maps			\$50,000	\$20,000		\$10,000							\$80,000
1.11 Contract - Rail Analysis- Genessee- Wyoming & UPRR		\$10,000	\$0	\$5,000	\$0		\$0		\$0				\$15,000
1.12 Travel Expenses	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$120,000
1.13 Misc Expenses	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$0	\$55,000
2. Project Technical Studies-Reports													\$0
2.1 Community Relations Program	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$60,000
2.2 Job Creation Report				\$20,000	\$20,000								\$40,000
2.3 Engineering Route Assessment	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$45,000						\$345,000
Geology Assessment				\$50,000									\$50,000
Environ Research on Routes			\$20,000	\$20,000	\$20,000				\$20,000	\$20,000			\$100,000
Environ Assessment						\$50,000	\$50,000	\$50,000		\$50,000			\$200,000
Valley Terminus Study/Report				\$50,000									\$50,000
Land / Route Study/Report									\$50,000	\$50,000			\$100,000
Hum Bay Port Study/Report				\$50,000									\$50,000
Project Schedules-Budgets	Within Technical Report Management Above												\$0
Next Phase Schedules-Budgets	Within Technical Report Management Above												\$0
Business Plan and ROI						\$50,000	\$25,000	\$50,000					\$125,000
Final Technical Report to STB										\$50,000	\$50,000		\$100,000
2.4 STB / FRA Application	\$20,000		\$20,000		\$20,000		\$20,000		\$20,000		\$20,000	\$20,000	\$140,000
2.5 Federal STB, FRA Process Mgmt Travel to Washington, D.C	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$10,000	\$10,000	\$70,000
Monthly Report on STB/FRA	Within Technical Report Management Above												\$0
Develop Next phase Schedules and Budgets													\$0
2.6												\$50,000	\$50,000
Cash Flow													\$4,000,000
Total Exp per Month	(\$390,000)	(\$245,000)	(\$395,000)	(\$500,000)	(\$285,000)	(\$295,000)	(\$365,000)	(\$275,000)	(\$260,000)	(\$345,000)	(\$270,000)	(\$245,000)	(\$4,000,000)
Draw Revenue	\$1,000,000		\$1,000,000		\$0	\$1,000,000			\$1,000,000				\$4,000,000
Bond/Dps Reserve	\$700,000											\$2,000,000	\$2,000,000
Collateral													\$4,000,000
Net Cash Available (EOM)	\$610,000	\$365,000	\$970,000	\$470,000	\$185,000	\$790,000	\$425,000	\$150,000	\$860,000	\$515,000	\$245,000	\$0	\$10,000,000

Activity: Engineer's Opinion of Probable Cost		Const. Contract No.: Rail Only, Port and Trans Load Facilities in Valley are Additional		Date: 28-Jul-16	
Project: Humboldt To Gerber Railroad		Status of Design: Preliminary		Job No: 2016.4.43	
Client: Northern California Railroad Company		Estimated By: KGD	Checked By:		
Item	Description	Units	Quantity	Estimate (\$ 000)	
				Unit Cost	Total Cost
1.0	DESIGN DEVELOPMENT				\$20,000,000
1.1	Preliminary Engineering Studies (0.5% of \$4,000,000,000)	%	0.5%		
1.2	Route Surveys, Final Surveys and Staking	Mile	220	\$10,000	\$2,200,000
1.3	Soils and Geology	Mile	220	\$50,000	\$11,000,000
1.3	Preliminary Design @ 2%	%	2.0%		\$49,000,000
1.4	Preliminary Environmental Assessment & Special Studies	Is	1	\$10,000,000	\$10,000,000
1.5	FRA Submittals and Process	Is	1	\$10,000,000	\$10,000,000
1.6	NEPA and CEQA Approval Processes	Is	1	\$10,000,000	\$10,000,000
1.7	Final Design @ 4%	%	4.0%		\$88,000,000
1.8	Program Management for 1 year @1.0% for Project	%	1.0%		\$6,666,667
1.9	Construction Management and Inspections	%	10.0%		\$400,000,000
1.10	Design Development Sub Total	Is	1		\$616,866,667
1.11	Design Development Contingency @ 20%	Is	20%		\$123,373,333
	DESIGN DEVELOPMENT BUDGET				\$740,240,000
2.0	CONSTRUCTION AND LAND				
2.1	Rail Route and Line Construction	Mile	220	\$5,000,000	\$1,100,000,000
2.2	Bridges Construction	Ea	4	\$15,000,000	\$60,000,000
2.3	Tunnel Construction-2 Each at 1 mile Each	Feet	10,560	\$5,000	\$52,800,000
2.4	Misc Structures Construction	Is	1	\$10,000,000	\$10,000,000
2.5	Site Facilities At Port of Humboldt Bay	Is	1	\$20,000,000	\$20,000,000
2.6	Site Facilities At Valley Tranship Warehousing	Is	1	\$20,000,000	\$20,000,000
2.7	Environmental Mitigation	Is	1	\$10,000,000	\$10,000,000
2.8	Record Drawings and Permit Compliance	Is	1	\$1,000,000	\$1,000,000
2.9	Special Crossings and Signage (Allowance of 50 Each)	Ea	50	\$8,000,000	\$400,000,000
2.10	Spurs and Additional Rail Line	Is	1	\$10,000,000	\$10,000,000
2.11	Construction Management and Inspections	%	10.0%		\$245,000,000
2.12	Upgrades to Hwy 5 at Berger	Is	1	\$30,000,000	\$30,000,000
2.13	Construction Sub Total				\$1,958,800,000
2.14	Construction Contingency @ 20%		20%		\$391,760,000
2.15	Mobilization @10% of Construction		10%		\$188,044,800
	CONSTRUCTION AND LAND BUDGET				\$2,538,604,800

Item	Description	Units	Quantity	Estimate (\$ 000)	
				Unit Cost	Total Cost
3.0	ALLIED COSTS				
3.1	Administration and Accounting for 10 years	ls	1	\$5,000,000	\$5,000,000
3.2	Legal	ls	1	\$30,000,000	\$30,000,000
3.3	Community Relations for 6 Years @ \$500,000 per Year	ls	1	\$3,000,000	\$3,000,000
3.4	Federal Rail Approval Process	ls	1	\$15,000,000	\$15,000,000
3.5	Market Studies and Contracts	ls	1	\$10,000,000	\$10,000,000
3.6	Special Fees (Utilities)	ls	1	\$5,000,000	\$5,000,000
3.7	Program Management @ 0.5 % for 10 Years	%	5.0%		\$166,666,667
3.8	Real Estate and Right of Way Engineering & Appraisals	ls	1	\$300,000	\$300,000
3.9	Land Cost of Rail Right-of- Way (220 x 5280 x 100)	Acres	2,667	\$800	\$2,133,333
3.10	Financing	%	5.0%		\$180,000,000
3.11	Environmental Monitoring (allowance)	ls	1	\$10,000,000	\$10,000,000
3.12	Allied Cost Sub Total				\$427,100,000
3.13	Allied Cost Contingency @ 20%		20%		\$85,420,000
	ALLIED BUDGET				\$512,520,000
4.0	Total Rail Development Cost				
4.1	Design Development, Construction, Land, Allied Costs	ls	1	\$3,791,364,800	\$3,791,364,800
4.2	Misc Facilities	ls	1	\$10,000,000	\$10,000,000
	Total Rail Development Budget				\$3,801,364,800
5.0	OPERATIONS COSTS, EQUIPMENT AND START UP				
5.1	Equipment (10 Engines)	Ea	10	\$15,000,000	\$150,000,000
5.2	Admin & Maint Facilities	ls	1	\$10,000,000	\$10,000,000
5.3	Computer Operations	ls	1	\$5,000,000	\$5,000,000
5.4	Start up Staffing, Policies, Protocols, Contracts	ls	1	\$5,000,000	\$5,000,000
5.5	Operations Cost Sub Total				\$170,000,000
5.6	Operations Cost Contingency		20%		\$34,000,000
	OPERATIONS BUDGET				\$204,000,000
	Total Project BudgetCost				\$4,005,364,800
	Total Project Budget - Rounded				\$4,000,000,000

CONTACT INFORMATION



PACIFIC CHARTER

FINANCIAL SERVICES CORPORATION

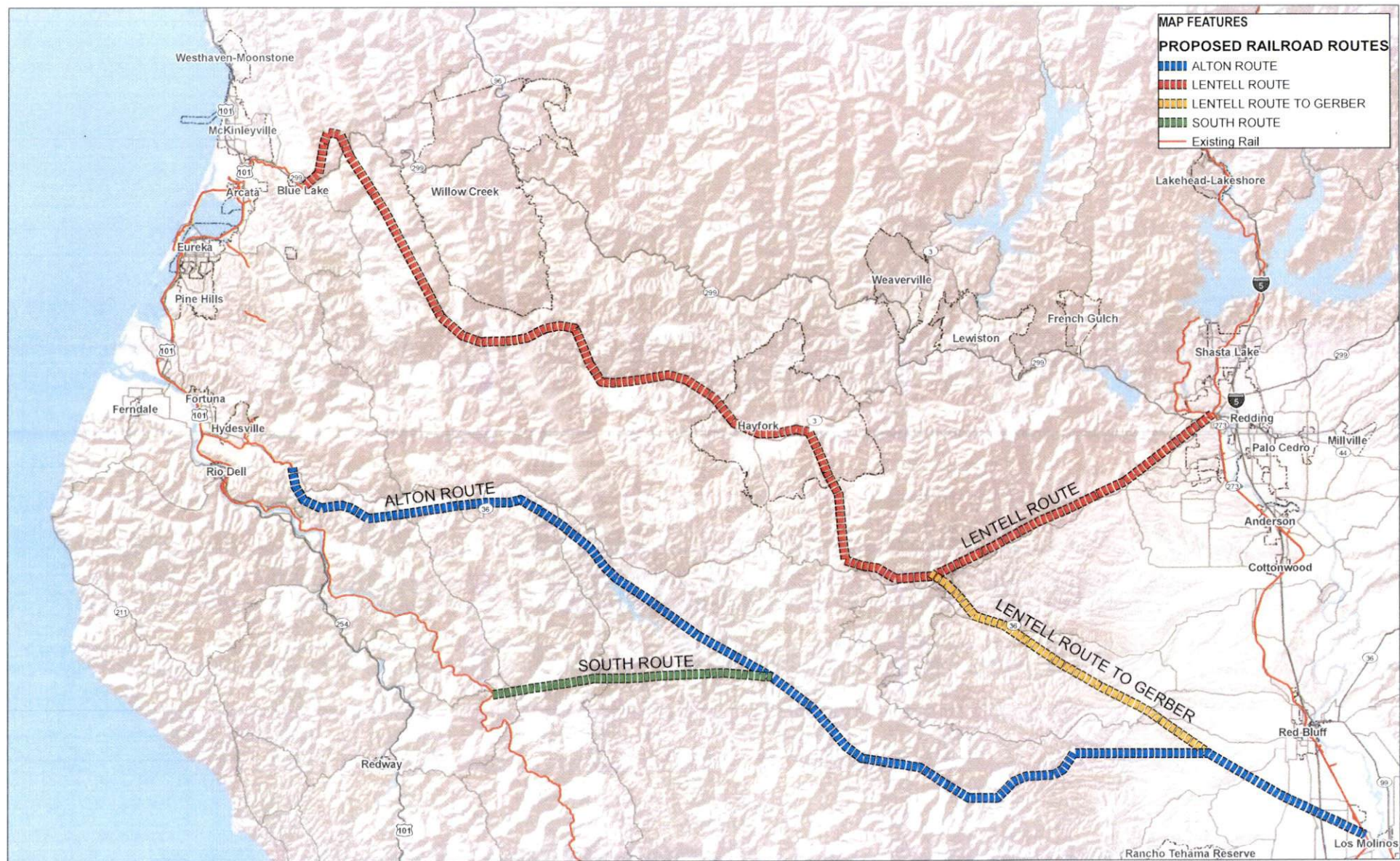
WEBSITE: PACCHARTER.COM

ALAN PAINTER, CEO,
TELEPHONE 949-707-5170
e-mail: apainter@paccharter.com



Oscar Larson & Associates Consulting Engineering

KENNETH G. DAVLIN, P.E., PRESIDENT
TELEPHONE: 707-445-2043
e-mail: kddavlin@olsdon.com



PROPOSED RAILROAD ROUTES

Humboldt Eastern Railroad

1 in = 8 miles
0 4 8

TranSystems

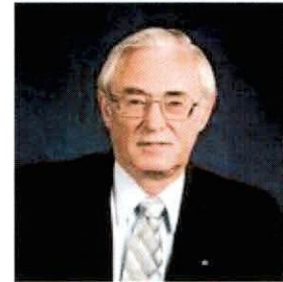
FIGURE 7



Kenneth G. Davlin, Professional Engineer (Civil)

Senior Engineer

Oscar Larson & Associates



EDUCATION: M.B.A., UCLA, 1970
B.S., Civil Engineering, Utah State University, 1964

REGISTRATION: Professional Engineer in California No. 21533
Disaster Program Safety Assessment Evaluator for Cal EMA

INTRODUCTION:

Mr. Davlin has over 40 years of experience in the field of civil engineering. His experience includes project management, project scope development, designs, feasibility studies, construction management, and consulting for coastal, hydroelectric, wind, energy, water, sewage, land development, roads and streets, buildings, and industrial, commercial and municipal projects. He practices engineering as a Project Manager, Project Engineer, and Design Engineer for infrastructure development programs and responsible Surveyor for site and infrastructure. His Project Management skills incorporate financing programs, assessment districts, resource allocation, personnel and system administration.

EXPERIENCE:

OSCAR LARSON & ASSOCIATES

Mr. Davlin manages project teams who provide solutions to clients' needs. He practices consulting in the fields of civil engineering and surveying. His experience is broad and includes technical and management responsibilities associated with projects which are represented by the following:

- Coastal facilities projects up to \$20 million
- Construction inspection and management projects up to \$300 million
- Consulting for wind projects up to 230,000 acres
- Consulting for Program Development on projects up to \$2 billion
- Developments up to \$60 million; residential and commercial
- Financial programs preparation, including assessment districts
- Hydroelectric projects up to \$40 million
- Industrial projects up to \$300 million
- Road and street projects from small projects to five miles of freeway construction on Highway 101
- Site survey projects up to \$300 million
- Wastewater projects up to \$30 million
- Water systems up to \$40 million

He has project experience in England, Panama, Alaska, Russia, Siberia, the Northern Mariana Islands, and several states within the United States.

He has served as City Engineer in five California cities:

- City of Blue Lake – 24 years
- City of Trinidad – 8 years
- City of Fortuna – 4 years



Kenneth G. Davlin (page 2)

- City of Rio Dell – 7 years
- City of Ferndale – 3 years

He served as the District Review Engineer during the development of its signature project, a 235-slip marina, and as Engineer of Record for the Humboldt Bay Harbor, Recreation and Conservation District for about \$20 million of projects.

Mr. Davlin is experienced in providing expert witness testimony in depositions, mediations, arbitrations, and court room settings for more than 35 years. He has provided consultations to attorneys and insurance companies as well as expert testimony in the following areas: surveying, property descriptions, evaluation of and resolution of property and deed conflicts, building codes, structures, construction conflicts, land development, land use, water systems, wastewater systems and roads.

MARTIN METALS, INC.

Corporate Controller of international company in the precious metals markets with management responsibility for financial operations, capital improvement programs, external financing, and commodity exchange transactions. Member of the committee which established the Los Angeles Commodity Exchange.

WINZLER & KELLY, CONSULTING ENGINEERS

Mr. Davlin was a Design Engineer during his tenure with Winzler & Kelly. He was responsible for and contributed to the design of commercial buildings, roads, and community water and wastewater systems. He also served as Resident Inspector during construction of the new City of Klamath where he was responsible for roads, drainage, water and sewage systems.

U.S. NAVY

Mr. Davlin was the Public Works Officer and supervised plant operations and maintenance activities on four naval bases. His duties included planning, operations, budgeting, purchasing, and personnel management for Public Works Department improvements on NAS Pensacola, NAF Saufley, and NAF Ellyson. As Resident Engineer (ROICC) he was responsible for construction of all base improvements. He managed a major expansion program, including base-wide drainage, water, sewage, training facilities, runways, residential and mess hall buildings to double the number of students in the helicopter pilot training program for the U.S. Navy Pensacola Florida Complex; where he reported to the CO NAS Pensacola and the Assistant Secretary of the Navy. He was also a Public Works Officer and OICC at NAVFAC TURKS assigned to the Caribbean Division of the Naval Facilities Engineering Command. Mr. Davlin was the Public Works Engineer for rail, docks, and quays to support USS Saratoga and other ships at Pensacola NAS, including project planning, design, construction management, and shore-side facilities maintenance and improvements.

CALIFORNIA DEPARTMENT OF TRANSPORTATION – DISTRICT 1 (Caltrans)

Mr. Davlin was responsible as a Survey Party Chief and Construction Inspector for four-lane freeway construction, including interchanges, bridges, and overpasses on State Highway 101; Survey Party Chief, Construction Inspector and Construction Manager for two-lane highway upgrade projects on State Highway 36.



Kenneth G. Davlin (page 3)

PROFESSIONAL ASSOCIATIONS:

- American Consulting Engineers Council
 - member
- American Society of Civil Engineers
 - member
 - past president, North Coast Branch
 - past member, San Francisco Section Board of Directors
- American Society of Military Engineers
 - past member
- American Water Works Association
 - life membership
- Association of Environmental Professionals
 - charter member
- California Water Environment Association
 - member
- Consulting Engineers and Land Surveyors of California, and ACEC
 - past member
- Design-Build Institute of America
 - past member
- International Code Council
 - professional member
- International Congress of Building Officials
 - professional member
- Water Environment Federation
 - charter member

ACTIVITIES:

- Association of Governing Boards of Universities and Colleges
 - member
- Astro Commuter Airlines
 - founder and past Board member
- California Community College System
 - certification as business instructor
 - certification as engineering instructor
- City of Eureka Building Department Board of Appeals
 - member
 - chairman
- Eureka Chamber of Commerce
 - past member Board of Directors
- Humboldt County
 - Junior Achievement Program Director
- Humboldt State University
 - member of Advancement Foundation Board of Directors for 10 years
 - chair of Finance Committee for 10 years
 - guest lecturer
 - Distinguished Alumni Award 2012
- Institute of the North Coast
 - past member of Advisory Board
- Rotary International
 - member and Paul Harris Fellow
- S-Matrix Corp
 - founder and past Board member
- St. Joseph Hospital Board of Trustees
 - past president and Board member
- St. Joseph of Orange Hospital System Corporation
 - past member of Strategic Planning Committee

LAWRENCE GEORGE MALLON, ESQ.

27194 Toyon Ridge Trail

Valley Center CA 92082

(760) 751-9923 FAX (760) 751-9925 email lgmallon@vcweb.org; lmallon@csulb.edu

President & CEO Strategic Mobility 21 Inc Non-profit 2010-Current

Program Director, Strategic Mobility 21 (SM21), CSULB Foundation (CSULBF), Office of Naval Research 2005-2010

Consultant, Center for Commercial Deployment of Transportation Technologies (CCDoTT) (CSULBF) 1998-2005

Counsel, Center for International Trade and Transportation, University College and Extension Services, California State University, Long Beach 1998-2009 and METRANS UTC

Chair, Southern California Marine and Intermodal Transportation System Advisory Council (SOCALMITSAC) to U.S. Secretary of Transportation, and Secretary of Department of Homeland Security, 2002-Present

Executive Director, Port and Intermodal Systems Center for Enhanced Security (PISCES) Consortium of California State University System, 2004-2008

Chair, Safety and Security Committee of AB2043 Goods Movement and Port Security California State Task Force, 2005

Legal and Professional Experience:

Managing Principal, Lawrence G. Mallon & Associates providing legal and international business consulting services to Federal and State governmental agencies, universities, cities, counties, special districts, and joint powers agencies, foreign and domestic for-profit and non-profit corporations, trade associations, labor organizations and individual clients, in international trade, transportation, and global logistics with principal offices in Southern California, and Washington D.C., since 1987.

Legal practice concentration in Federal legislative, administrative, civil litigation, and transactional services involving Federal taxation, bankruptcy and reorganization (and cross-border insolvency), international trade and investment, admiralty and maritime law, business and estate planning.

Representative clients include: The Center for International Trade and Transportation (CITT), University College and Extension Services (UCES), California State University, Long Beach (CSULB); California State University Long Beach Foundation; The California Maritime Infrastructure Authority (General Counsel); The National Energy Marketers Association (NEMA); Southern California Logistics Airport and Logistics Rail

Authority; International Trade and Transportation (Integrated Logistics) Center; the City and Port of Richmond, California; Sacramento-Yolo Port District; Humboldt Bay Harbor, Recreation, and Conservation District; Stockton Port District; City of Morro Bay; Contra Costa County Water Agency; Santa Cruz Harbor District, Moss Landing Harbor District; City of Eureka; Greenbrae Marina Community Services District (Marin County, CA); Boat Owners Association of the United States (BOATUS); MarDive Corporation; American Freight Line; Dot Line Transportation; Full Power Corporation, Westside Support Services Foundation.

Member, Law Review Committee, and Lecturer on Project Financing and Project Cooperation Agreements in Professional Port Manager (PPM) Certification Program American Association of Port Authorities (AAPA) 1987-Present

Official observer to Organization for Economic Cooperation and Development (OECD) Joint MTC/CLP Workshop on Regulatory Reform in Maritime Transport sponsored by Transport Division, Directorate of Science, Technology, and Industry May 25-26, 2000 Paris, France

Wrote, edited, produced and directed documentary video "A Legacy of Partnerships, The Challenge of the Waterfront in the New Century" on the fortieth anniversary of the landmark Mechanization and Modernization Agreement of 1960 for The Center for International Trade and Transportation (CITT), CSULB with financial assistance and support from the Pacific Maritime Association (PMA) and the International Longshore and Warehouse Union (ILWU) February, 2000

Certified graduate of Military Support to Civil Authorities Consequence Management-All Hazards Course April 9, 2004 sponsored by National Interagency Civil-Military Institute (NICI)

Co-preliminary patent applicant for "A System and method for modeling a regional supply chain from aggregate electronic interchange and xml data April 5, 2004"

Maritime Counsel, Committee on Merchant Marine and Fisheries,
U.S. House of Representatives, Washington, D.C. 1977-87
Subcommittee on Merchant Marine, 1981-87
Subcommittee on Coast Guard and Navigation 1977-80

Primary responsibilities:

Legislative drafting, analysis, and interpretation of international, Federal statutory, and common law in the substantive areas of admiralty and maritime, environmental and natural resources, international law of the sea, administrative, international trade and investment, taxation, and public finance to the promotion and regulation of maritime commerce, and to coastal and marine-based economic activity.

Programmatic and/or budgetary oversight of maritime mission agencies of the Federal establishment including the Maritime Administration (MARAD) and United States Coast Guard (U.S. Department of Transportation); shipbuilding and repair (NAVSEA), mobilization planning, and civil shipping functions of the United States Navy (Military Sealift Command)(Department of Defense); U.S. Customs Service (Department of the Treasury); Federal Maritime Commission; National Oceanic and Atmospheric Administration (NOAA)(Department of Commerce); U.S. Environmental Protection Agency (USEPA) and U.S. Army Corps of Engineers (USACE)(Civil Works.)

Founder and Executive Director, Congressional Port Caucus, U.S. House of Representatives, 1981-87

Bills enacted into law:

Section 808 Investigations (National Port Security Centers) of the Coast Guard and Maritime Authorization Act of 2004 amendments to Maritime Transportation Security Act of 2002 (PL 107-295) (Public Law 108-293; 118 Stat 1083) codified at 46 USC 70107(i)

Oil Pollution Act of 1990 (OPA 1990) HR 1465 (Public Law 101-380; 104 Stat 484) codified at 33 USC 2701 et seq (collaborated on first draft with API General Counsel 1974 while Marine Policy Fellow at WHOI)

The Act of June 7, 1988 (Amendments to Section 27 of the Merchant Marine Act of 1920 ("Jones Act"))(46 U.S.C. App. 883) and the Towing Act (46 App. U.S.C. 316(a)) (Public Law 100-329).

Commercial Fishing Industry Vessel Anti-Reflagging Act of 1987 (extension of coastwise laws to commercial fishing, fish processing, and fish tender vessels) (Public Law 100-239).

Harbor Development and Navigation Improvement Act of 1986 (Public Law 99-662), Title II of H.R. 6, Water Resources Development Act of 1986 (WRDA 1986).

Merchant Marine Capital Construction Fund (26 U.S.C. 7518) and Foreign Source (Shipping) Income Tax provisions (26 U.S.C. 887, 953-4) of H.R. 3838, Tax Reform Act of 1986 (Public Law 99-514).

Title XI Ship Financing Bankruptcy Reform provisions (11 U.S.C. 362) of H.R. 5300 Omnibus Budget Reconciliation Act of 1986 (Public Law 99-509).

Establishment of Presidential Commission on Merchant Marine and Defense (Public Law 98-525).

Deepwater Port Act Amendments of 1984 (Public Law 98-419).

Boating Safety and Sport Fish Restoration Act (Wallop-Breaux Fund) (Public Law 98-369).

Maritime Personal Injury and Death (Jones Act) Reform (Public Law 97-389)

Maritime Drug Law Enforcement Act (Public Law 96-350).

Establishment of Towing Safety Advisory Committee in the Department of Transportation (Public Law 96-380).

Recreational Boating Safety and Facilities Improvement Act of 1980 (Biaggi Boating Safety Fund)(Public Law 96-451).

Shipping Safety Fairways provisions of Port and Tanker Safety Act of 1980 (Public Law 96-478; 94 Stat 2303) codified at 33 USC 1221 et seq

Inland Navigation Rules Act of 1980 (Public Law 96-591; 94 Stat. 3415) codified at 33 CFR 83

International Navigation Rules Act of 1977 (Colregs 1977) (Public Law 95-75, 91 Stat) codified at 308 33 USC 1601-1608

Contributing author Marine Environmental Protection provisions of Third United Nations Conference on the Law of the Sea (UNCLOS III 1978) through US delegation pending ratification by US Senate 1978

Bills reported:

Military Auxiliary Vessel Revolving Fund Act (H. Rept. 99-795 Part 1).

Deepwater Port Act of 1974 Reauthorization (H. Rept. 96-350 Part 2).

Amendments to Ports and Waterways Safety Act of 1972 (Port Safety Grants) (H. Rept. 96-324 Part 1) incorporated in Harbor Development and Navigation Improvement Act of 1986.

Principal Legislative and Oversight Hearings Held:

Ship Financing and Taxation, Parts 1 & 2 (Committee Serial 99-24,52).

Port Development (Committee Serial 99-1, 98-38, 97-23,25).

Maritime Redevelopment (Committee Serial 98-57).

Maritime Policy and Regional Economic Development-Port Development

Committee Serial 98-9).

Port Safety and Liquefied Natural Gas Facility Siting and Safety (Committee Serial 96-15).

Coast Guard Drug Interdiction (Committee Serial 95-22, 48).

Dr. Mallon was an official Congressional observer to the Legal and Marine Safety Committees of the United Nations International Maritime Organization (IMO) in London from 1981-87, and an official Congressional observer to the Third United Nations Conference on the Law of the Sea (UNCLOS III) in Geneva in 1978-79.

Attorney-adviser, Select Committee on the Maritime Industry, California State Senate 1987-1993, and Senate Transportation and Local Government Committees 2004-2009

Legislative draftsman:

SB 1081 (Alquist) Liquefied Natural Gas Terminal Siting Act of 1977 (Chapter 855 Statutes of 1977) codified in California Public Utilities Code Section 550 et seq) Rescinded 1987 for Western LNG Terminal Corporation authorized the California Public Utilities Commission to issue a permit for the construction and operation of a remote LNG terminal site to be determined by the California Coastal Commission (First State regulation of LNG terminal facilities incorporated risk assessment and seismic safety standards)

SB 1916 Chapter 157 Navigation improvements (Inclusion of navigation improvements in The Improvement Act of 1911 and the Municipal Improvement Act of 1913), 1988

SB 683 Chapter 978 Harbor districts revenue bonds (Codification of special assessment district/navigation improvement district authority)(commencing with Section 5904 of the Harbors and Navigation Code), 1991

SB 1988 Chapter 1235 Port infrastructure (California Maritime Infrastructure Authority organic legislation) codified at Part 1 (commencing with Section 1690) of Division 6 of the Harbors and Navigation Code, 1992

SB 540 Chapter 1197 California Maritime Infrastructure Authority organic legislation codified at Sections 1692, 1700 of the Harbors and Navigation Code, 1993

AB 2043 (Lowenthal) Chapter 942 Maritime Port Strategic Master Plan Task Force (California Marine and Intermodal System Advisory Council organic legislation) codified at Section 1760 of the Harbors and Navigation Code, 2004

SB 113 (Wiggins) Local Government Omnibus Act of 2009 Section 5100 Streets and Highways Code State of California, 2009

Energy Facility Siting provisions of California Coastal Act of 1976 Public Resources Code Division 20 Article 7 Section 30261 Tanker facilities use and design (amended by Chapter 855 Stats 1977 Ch 182 Stats 1987)

Special Counsel, Port of Long Beach, and Associate, Ball, Hunt, Hart, Brown, and Baerwitz, Long Beach, California, 1976-77.

Attorney-adviser on environmental and maritime law aspects of Sohio Pactex project involving planning, construction, project financing, and regulatory permitting of marine terminal facility in Port of Long Beach, California, and oil pipeline construction from Long Beach to Midland, Texas for transshipment of Alaskan North slope oil, construction of domestic tanker fleet, and negotiation of 713 Federal, State, and local permit approvals required by project.

Attorney-advisor to Western LNG Terminal Associates, Inc., a joint venture of Pacific Gas and Electric Company and Pacific Lighting Corporation for purpose of construction of marine terminal facilities for transshipment of Alaskan and foreign liquefied natural gas, construction of dedicated LNG tanker fleet, and negotiation of Federal, State, and local permit approvals, and enactment of State (LNG Terminal Act of 1977) and Federal (Pipeline Safety Act of 1979) enabling legislation.

Assistant Sea Grant Director for Marine Advisory Services, and Adjunct Professor of Law and Public Policy in maritime and international law, University of Southern California, Los Angeles, California, 1975-76.

ACADEMIC BACKGROUND

Postdoctoral Fellow in Marine Policy and Ocean Management, Woods Hole Oceanographic Institution, Woods Hole, Massachusetts, 1974-75.

LL.M. Ocean and Coastal (maritime and international) Law, University of Miami, Miami, Florida, 1974, summa cum laude.

J.D. Emory University, Atlanta, Georgia, 1973, with concentration in business and estate planning and taxation. President and Founder Moot Court Society, Order of Barristers, 1973

B.S.B.A. International Business and Economics, Georgetown University, Washington, D.C., 1967 cum laude.

Recent Publications:

Strategic Mobility 21 Phase II Transition Plan Enterprise to Federation, 2010

Strategic Mobility 21 Phase II Final Report, 2010

Strategic Mobility 21 E Commerce I3 Workshop Final Report, 2009

Strategic Mobility 21 Concept of Operations Revised, 2009

Strategic Mobility 21 CLIN 0021 Phase I Final Report and Transition Plan, 2007

Regional Supply Chain Simulation (RSCS) Model: Application of an extensible, modular approach to goods movement performance measurement in Southern California Proceedings, Transportation Research Board, Annual Meeting, January, 2004

Deconstructing the Pre-Technology Driven Paradigm for Border Security: A Survey of Port of Entry and Exit Inspection Process and Technology, 2002, Center for Commercial Deployment of Transportation Technology (CCDOTT), CSULB under a grant from the United States Transportation Command (USTRANCOM), DOD, and the Maritime Administration (MARAD), USDOT

Pacific Rim High Speed Ocean Freight Market Interim Report: High Speed Surface (HSS) Ocean Transportation and Supply Chain Agility, A Major Customer Needs Analysis Based upon Shipper Supply Chain Mapping and Simulation, 2001, Center for Commercial Deployment of Transportation Technology (CCDOTT), CSULB under a grant from the United States Transportation Command (USTRANCOM), DOD, and the Maritime Administration (MARAD), USDOT

An Integrated Approach to Managing Local Container Traffic Growth in the Long Beach – Los Angeles Port Complex, Phase II: Benchmarking analysis of potential stakeholder implications of implementation of transportation systems measures in the form of extended gate hours of operation at marine terminals to improve regional goods movement by increasing throughput velocity and mobility, 2002, Center for Metropolitan Transportation Studies (METTRANS), and Center for International Trade and Transportation, University College and Extension Services, California State University, Long Beach under a grant from the USDOT University Transportation Center program, Research and Special Projects Administration (RSPA)

Multi-disciplinary Analysis of the 200 Mile Exclusive Economic Zone Provisions of the Third United Nations Conference on the Law of the Sea (UNCLOS III) Draft Treaty Graduate thesis University of Miami Sea Grant Publication 1974

ADMITTED TO PRACTICE

California, 1987; New York, 1987; District of Columbia, 1978; Georgia, 1973; U.S. Supreme Court, 1980; U.S. Tax Court; U.S. Court of International Trade; 1986; U.S. Claims Court, 1987; U.S. Court of Appeals for the District of Columbia, 1987; U.S. District Courts: Northern District of Georgia, 1973; District of Columbia, 1986; Central District of California, 1988; Eastern District of California, 1991; Northern District of California, 1999; Southern District of California, 2002

MILITARY EXPERIENCE

Commissioned Officer U.S. Naval Reserve April 4, 1968 1115 Surface Warfare Designator

Active Duty 1967-69 Vietnam Conflict

Active Reserve 1969-1983, Lieutenant Commander (Retired)

Certified Oceanography Instructor

Legal adviser to the Oceanographer of the Navy on International Law of the Sea Matters
Specialist in Military Sealift Command (MSC)(Logistics)/Naval Control of Shipping
qualified Division officer/weapons department head, Officer of the Deck underway,
Surface Warfare Officer qualified, nuclear weapons handling/surface missiles qualified,
Tactical Action Officer qualified

PROFESSIONAL ASSOCIATIONS

State Bar of California, Member, Estate Planning and Trust Law, and Taxation Sections

District of Columbia Bar Association, Member, International Law Section

Georgia Bar Association, designated specialist in Admiralty and Maritime, Environmental and Natural Resources, and International and Foreign Law, Member International Law Section

Maritime Law Association of the United States, Certified Proctor in Admiralty, 1978

Who's Who in American Law, 1st ed., 1977

PERSONAL DATA

Date of Birth: September 3, 1946

Marital Status: Married, Moira H. Mallon, 1978, No children

Health: Excellent

Homeport: San Diego and Orange County California since 1987

Biography

Dr. Larry Mallon has compiled an enviable record of achievement and national recognition as Congressional maritime and international legal counsel, and Congressional United Nations observer at the Third International Legal Conference on the Law of the Sea (UNLOS III) under US Ambassador Elliott Richardson, the International Maritime Organization (IMO) and the Organization for Economic Cooperation and Development (OECD) on ocean liner regulation, distinguished naval officer, admiralty and maritime attorney, transportation and logistics consultant, educator, administrator, and interdisciplinary academic researcher spanning thirty-five years. A 1967 graduate of Georgetown University, he holds a Juris Doctor degree from Emory University and a post-doctoral Master of Laws from the University of Miami. He was the recipient of a first-ever post-doctoral fellowship at MIT-WHOI in Marine Law and Policy.

While enrolled at Emory University School of Law, he was appointed the first-ever Governor's Intern by then Governor Jimmy Carter and was assigned to assist in restructuring the Georgia Department of Corrections. He later served as Governor and President elect Carter's principal adviser on International Law of the Sea Matters. He was also a first-ever appointed intern by the Georgia District Attorneys Association and tried the first criminal cases to jury verdict while still a law student under a special act of the Georgia legislature. He was the Founder of the Moot Court Society, its first President, and was recognized by the National Order of the Coif and the Order of Barristers for distinguished achievements in appellate advocacy.

He is a veteran of combat duty in Vietnam and fifteen years naval reserve service, including Legal Advisor to the Oceanographer of the Navy. Designated a Proctor in Admiralty in 1978, he is licensed to practice law in the states of California, New York, the District of Columbia and Georgia, and before the United States Supreme Court and every court of special jurisdiction within the Federal judiciary and the Court of Appeals for the Federal Circuit.

He served as the Maritime Counsel to the United States House of Representatives for eleven years. He is the principal author of the Water Resources Development Act of 1986 (Public Law 99-662), the primary organic law of Federal navigation project development, in addition to numerous statutes codified in Titles 14 Coast Guard, 33 Navigation, and 46 Shipping to the United States Code.

He was a Congressionally appointed Official Observer to the Third United Nations Conference on the Law of the Sea serving on the staff of then U.S. Ambassador Elliot Richardson (and the author of Marine Environmental provisions in the final draft treaty), and member of the U.S. delegation to the International Maritime Organization's Marine Safety and Legal Committees. He was the founding staff director to the 230 member Congressional Port Caucus in the House of Representatives.

He also served as Legal Consultant to the California State Senate Select Committee on the Maritime Industry, and is the author of an entire body of law involving innovative

transportation infrastructure financing codified in the Harbors and Navigation Code. He is a nationally recognized expert in water resources infrastructure development and public financing representing cities, counties and special districts throughout the State of California since 1987 in that capacity. He serves as Counsel to the California Maritime Infrastructure Authority. He is the Founding Chair of the Southern California Marine Transportation System Advisory Council to the Secretary of Transportation. He sits as a national representative on the Legal Committee of the American Association of Port Authorities.

He served as founding Director of Research and Counsel to the Center for International Trade and Transportation at California State University Long Beach (CSULB), a nationally designated center for goods movement research by the Secretary of Transportation.

He served as the founder and Program Director of the Office of Naval Research supported Strategic Mobility 21 program in advanced logistics warfare concepts, doctrine education and training, and the President of Strategic Mobility 21 Inc its non-profit designated transition vehicle .

He is currently engaged in applied research for the Departments of Defense, Transportation and Homeland Research in freight movement and intelligent transportation systems, maritime, port, and global supply chain security, and rapid deployment, warfighter sustainment and force protection.

Dr R GERALD BAILEY

Dr R Gerald Bailey
14 Emery Cliff Pl
Spring, TX 77381

Tel. 713-524-2542
rgbailey@baileyhouse.com

SUMMARY

Over 50 year career in the petroleum industry with extensive engineering, management, and senior executive assignments. Experience in all aspects of industry both upstream and downstream, with particular Middle East skills, along with US onshore and offshore. Served on executive boards. Exxon, President, Arabian Gulf, retired.

WORK HISTORY

Bailey Petroleum 1997 - continues
Consulting and business development (Houston, TX)

CEO, MCW Energy Group MCWEF 2011- continues
Public company, oil sands extraction (Los Angeles, CA)

Co-Chairman, Alrino Energy 2012 - continues
Energy ventures (Newport Beach, CA)

Advisor, Pacific Charter (Newport Beach, CA) 2012 - continues

Managing Member/President, Trinity Petroleum Group LLC 2012-
continues
Energy ventures (Irvine, CA)

President and CEO, STX Energy Partners LLC 2015 - continues
Oil and gas production (Shreveport, LA)

Chairman and CEO, Arizona Energy Partners LLC 2016 - continues
Helium production (Phoenix, AZ)

Managing Member, BCM Energy Investments LLC 2008- continues
Energy ventures (New York, NY)

Director, Cavitation Technologies CVAT 2017 - continues
Cavitation reactors (Los Angeles, CA)

Director, NewLead Holdings, Bitumen Shipping 2016 - continues
Tanker transport company (Athens, Greece)

Side note: requested by US State Department in 2007 to oversee the
reconstruction of Iraq oil industry but declined due to security issues

President, Exxon, Arabian Gulf, Abu Dhabi, UAE 1993-97
Responsible for coordination of all Exxon business interests in the Arabian
Gulf. Liaison with local governments. Director of Abu Dhabi Onshore Oil
Company. Managed regional E&P office and provided support to area
offices of Supply, Marketing, and Chemicals. Director of Exxon Qatar.
Managed office of Exxon Qatar in Doha and headed negotiations on gas to
liquid conversion project.

Assistant General Manager, Administration and Commercial, Abu Dhabi
Onshore Oil Company, on loan from Exxon 1989-93
Management of administration and commercial functions for operating
company producing 1 MMBD with 1800 employees and a budget of \$500
million. Supervised some 400 persons in Human Resources, Planning,
Computers, Quality Assurance, Finance, Audit, Legal, Medical, Security,
Public Affairs.

Operations Manager, Qatar General Petroleum Corp, Dukhan Operations, on
loan from Exxon 1987-89
Management of production fields producing 300 MBD oil and 600MMCFD
gas. Supervised 800 people in drilling, production, petroleum engineering,
maintenance, camp services and housing.

Operations Manager, Qatar General Petroleum Corp, Umm Said Operations,
on loan from Exxon 1985-87

Responsible for 8000 MTD NGL plant, oil export terminal, oil and gas
pipelines, with 400 employees.

Operations Superintendent, Exxon Lago Oil, Aruba 1982-85

Responsible for operation of 400 MBD refinery.

Technical Services Superintendent, Exxon Oil, Aruba 1981-82

Technical Services and Engr Supt, Esso Standard Libya, Brega, Libya 1981
Responsible for 200 MBD Oil, 500 MMCFD gas, and LNG plant.

Operations Supt, Esso Standard Libya, Brega, Libya 1980-81

Responsible for operations producing 200 MBD oil, 500 MMCFD gas, five
remote desert camps, pipeline systems, engineering, camp services.

Senior Production Supervisor, Zelten Field, Esso Libya, Brega, Libya 1979

Staff Engineer, LNG plant, Esso Libya, Brega, Libya 1978

Operations Supervisor, Additives, Texaco, Port Arthur, Texas 1972-78

Process Engineer, Petrochemicals, Additives, Texaco, Port Arthur, TX
1970-72

Staff Engineer, Petrochemicals, Texaco, New York, NY 1966-70

Research Engineer, Chemicals, Additives, Texaco, Port Arthur, TX 1963-66

EDUCATION

- PhD, Columbia Pacific University, San Rafael, CA 1991
- Doctoral Studies, Chemical Engineering, Lamar University,
Beaumont, TX 1974
- MS Chemical Engineering, New Jersey Inst of Technology, Newark,
NJ 1970
- BS Chemical Engineering, University of Houston, Houston, TX 1963
- Valedictorian, Aldine High School, Houston, TX 1959

PROFESSIONAL

- Registered Professional Engineer, Texas No. 28771
- American Institute of Chemical Engineers, Life Member
- Society of Petroleum Engineers
- Alpha Chi Sigma, professional fraternity, chemists and engineers
- Middle East Policy Council, Washington, DC

- Tate Technology, Director; sporting helmets; Los Angeles, CA
- Wilson Energy, Advisor; oil production, Corsicana, TX
- Ephraim Oil LLC, member, oil production, Shreveport, LA
- LaBrea Project LLC, member, oil reclamation, Phoenix, AZ

PUBLICATIONS AND PRESENTATIONS

- Interview, NASDAQ, Small Cap Nation, Jane King, “MCW Energy”, 2016
- Interview, Fox TV Network, Stuart Varney, “Oil Outlook”, 2016
- Mick and Associates, Energy Symposium, keynote speaker, Dallas, 2015
- Interview, CCTV, “World Energy Outlook 2015”, Beijing, China, 2015
- Lifetime Achievement Award, from University of Houston, 2014
- Opal conferences, “Investing in Energy”, CA , 2014
- MicroCap Review, “Oil, It Sustains Us”, January, 2011; “Why Invest in MicroCap Energy Companies”, October 2011.
- Book, “The Fall of the American Empire”, Tucson: Wheatmark, 2007.
- Book, “The World is Our Course; Golfing Around the World”, Tucson: Wheatmark, 2007
- Book, Technical Advisor, “Sweet Crude”, novel, Tucson: Wheatmark, 2012
- SMi Conferences, “US Oil Companies Involvement in Libya”, Nice, 2000; “GTL and Gas Utilization in the Arabian Gulf”, London, 2000
- IBC Conferences, “GTL and Gas Use in Arabian Gulf”, Houston, 2001; IBC GTL Conference, Chairman, Houston, 2003
- PhD Dissertation, “Techniques and Experiences of Management of a Multinational Workforce in the Middle East Petroleum Industry”, 1991
- MS Thesis, “Correlation and Prediction of Diffusion Coefficients in Binary Gas Systems”, 1970
- Hydrocarbon Processing, “Use HELP Theory of Management, October, 1991
- Chemical Engineering, “Predicting Diffusion Coefficients in Binary Gas Systems”, March, 1975
- Quoted Bailey works, “The Properties of Gases and Liquids”, R. Reid et.al., McGraw Hill, 1977, page 553. “Rules of Thumb for Chemical Engineers”, C. Branan, Gulf Publishing, 2005, page 397.

PERSONAL

Wife, Sue Bailey, married 52 years, deceased 12-18-2014
University of Houston Alumni Association, Life member
JB Ranch, Texas Longhorn Breeders, Owner; Houston
Houston Livestock Show and Rodeo, Life member
Texas Longhorn Breeders of America, Life member

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Raymond Gerald Bailey (/person/raymond-gerald-bailey)

[Overview \(/person/raymond-gerald-bailey\)](#)[Timeline \(/person/raymond-gerald-bailey/timeline\)](#)[Contributors \(/person/raymond-gerald-bailey/contributors\)](#)

Overview

UPDATE

Primary Role

Chief Executive Officer @ MCW Energy Group (/organization/mcw-energy-group)

Gender: Male

Location: California City

Person Details

UPDATE

Dr. Bailey has over 50 years of experience in the international petroleum industry in all aspects, both upstream and downstream with specific Middle East skills and U.S. onshore/offshore sectors. Along with being the CEO of MCW Energy Group, he is currently the Chairman of Bailey Petroleum, LLC, a consulting firm for major oil and gas exploration/development corporations. In addition, Bailey is Chief Operating Officer of Indoklanicsa, Nicaragua, Vice Chairman, Trinity Energy Group, Inc., Chairman of American Impact Energy and CEO of American Dakota Refinery, LLC. Dr. Bailey is retired from Exxon, lastly as President, Arabian Gulf. During his Exxon career, he also served as the Assistant General Manager, Administration & Commercial, Abu Dhabi Onshore Oil Company; Operations Manager, Qatar General Petroleum Corp., Dukhan Operations and the Operations Manager, Qatar General Petroleum Corp., Umm Said Operations. He was also the Operations Superintendent, Exxon Lago Oil, Aruba and has spent time in Libya as Operations Superintendent for Esso Standard, Libya, Brega, with experience in LNG and oil field production. His earlier career included service with Texaco where he gained skills in oil additives and petrochemicals manufacturing.

Dr. Bailey holds a BS Degree in Chemical Engineering from the University of Houston, an MS Degree in Chemical Engineering from the New Jersey Institute of Technology, Newark, New Jersey, a PhD Degree from Columbia Pacific University, San Rafael, CA and is a graduate of Engineering Doctoral Studies from Lamar University, Beaumont, TX. He has written many articles, papers and studies on the oil industry, and has been a keynote speaker of many international industry conferences including the Money Show conference with his address, "The Future of Oil & Gas Developments," and FreedomFest Conference, "Investing In Oil," and also has appeared recently on national Chinese television discussing the "World Energy Outlook." He is a member of the Middle East Policy Council, Society of Petroleum Engineers and the American Institute of Chemical Engineers.

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Jobs (1)

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Chief Executive Officer

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Professional Services
Company Overview of Bailey Petroleum LLC

August 20, 2017 3:09 PM ET

Snapshot

People

Overview Board Members Committees

Executive Profile

Raymond Gerald Bailey Ph.D., P.E.

Chairman and Chief Executive Officer, Bailey Petroleum LLC

Age Total Calculated Compensation This person is connected to 7 Board Members in 7 different organizations across 11 different industries.

76

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See Board Relationships

Background

Dr. Raymond Gerald Bailey, also known as Jerry, Ph.D., P.E., serves as an Advisor of Powered Corp. Dr. Bailey serves as Chief Executive Officer of Bailey Petroleum LLC. He served as the Chief Executive Officer of Petroteq Energy Inc. (formerly MCW Energy Group Limited) since October 15, 2012 until July 2017. He has over 50 years experience in all aspects of the oil and gas industry, both, upstream and downstream, onshore and offshore and has served on numerous energy ...

Read Full Background

Corporate Headquarters

16719 Scamper Lane
Crosby, Texas 77532-4833

United States

Phone: 832-289-5312
Fax: 866-815-8722

Board Members Memberships

Chairman

Kingdom Energy Partners LLC

Chairman and Chief Executive Officer

Bailey Petroleum LLC

2010-Present

Executive Chairman

BCM Energy Partners, Inc.

2012-Present

Director

Petroteq Energy Inc.

2016-Present

Director

Cavitation Technologies, Inc.

Education

BS 1963

University of Houston System

MS 1970

New Jersey Institute Of Technology

PhD 1991

Columbia Pacific University

Other Affiliations

Black Dragon Resource Companies, Inc.
University of Houston System
New Jersey Institute Of Technology
Columbia Pacific University
New Times Energy Corporation Limited
ReoStar Energy Corp.
Powered Corp.
OriginClear, Inc.
Cavitation Technologies, Inc.

Annual Compensation

There is no Annual Compensation data available.

Stocks Options

There is no Stock Options data available.

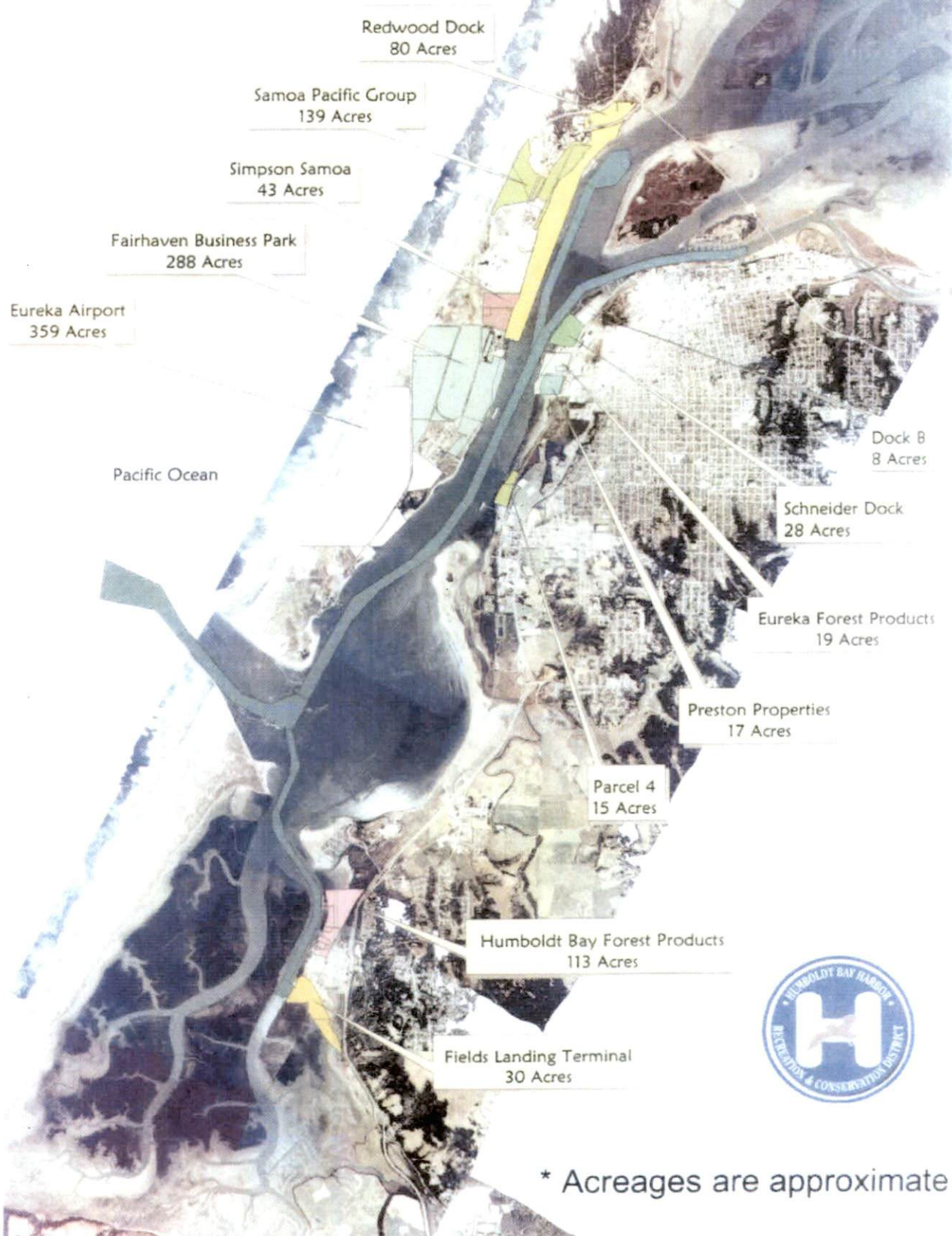
Total Compensation

There is no Total Compensation data available.

Kingdom Energy Partners LLC
Petrotek Energy Inc.
Solar Quartz Technologies Corporation
BCM Energy Partners, Inc.

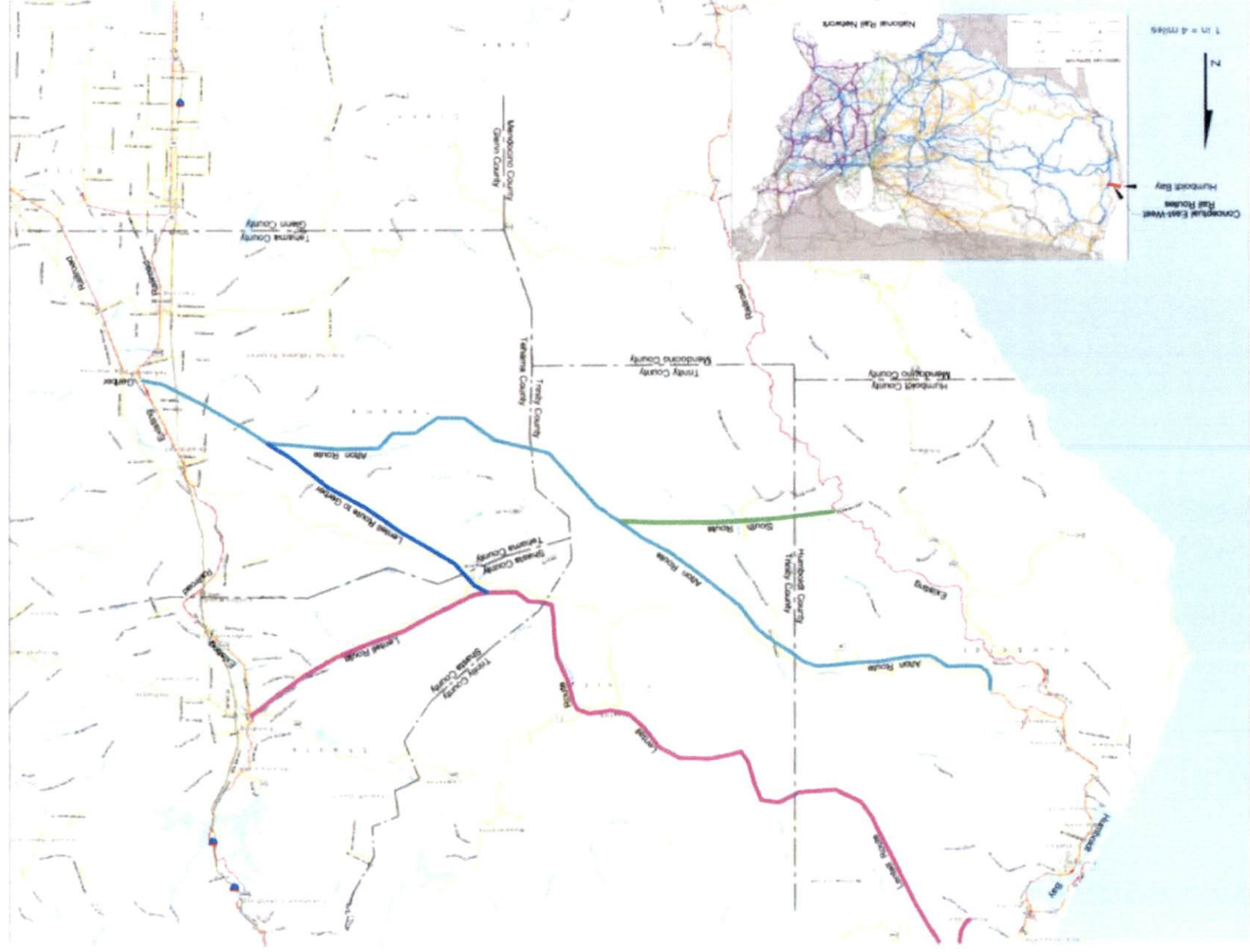
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Port of Humboldt Bay Underutilized Port Properties* 2006



* Acreages are approximate

Conceptual East-West Rail Routes





Meetings are being held in the "Conference Room" behind 1310 6th street. Attendance is by invitation only. If you received this notice, you are invited to attend. In order to maintain confidentiality all participants will be asked to sign a non-disclosure statement. If you are interested in seeing the Railroad and Port project a reality and would like a piece of the action, be sure to attend

FUNDING FOR EAST WEST RAIL AND PORT DEVELOPMENT

Informational Meetings Scheduled

**Because of recent
changes in
financial markets,
private funds are
available to build
the rail and port.**

**In order to access
these funds a small
amount of
"Founder's Equity"
must be raised
locally.**

**HUMBOLDT
EASTERN
RAILROAD LLC.**

**1310 Sixth Street
Eureka, CA 95501
(707) 443-5078**