

MICHAEL A. FATIGATI, PMP

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Operations Executive | VP Engineering | Program Manager

Global visionary leader who transforms disruptive ideas into commercially scalable commodities and processes in the alternative and biomass fuel, renewable energy/power, renewable fuels, chemical, environmental, waste, biotech and nutraceutical industries. Instrumental in developing, engineering and ramping up novel new concepts from pilot plant demonstrations to full-scale commercial production.

Executive Performance

Advisory Board Member

2005—Present

Recruited for advisory board and council member roles for several technology companies, investment firms and consulting organizations, including Gerson Lehrman Group; Ridgetop Research; Intota (OORC International); Cognolink; ConvertCoal, Inc.; and a confidential private equity partnership.

HELIAE DEVELOPMENT LLC

2013—2014

Senior Director, Technical Services

Recruited for a key role in the development and commercialization of novel processes utilizing GMO algae for biotech applications, including expression of mammary amyloid proteins for use in treating gastrointestinal disorders.

- Scaled up process for manufacturing the production of a mammalian amyloid protein using an algae platform to meet a projected \$100 million annual market.
- Managed retrofit of a \$30 million photobioreactor plant in Indonesia.
- Expedited the commissioning of a \$14 million plant. Heliae faced a tight startup schedule at a new algae production facility due to construction delays. Assembled and led a team of engineers, operators, trade labor and equipment vendors that managed the process of commissioning 500+ pieces of equipment. Brought plant online on time and within budget.

SOLAZYME, INC.

2011—2013

Senior Director, Process Engineering

- Directed startup of a \$33 million proprietary algal sugar to tailored oil technology platform.
- Managed all phases from engineering and retrofit to regulatory compliance.
- Captured significant operating and capital cost savings in a 2-month, \$150 million design project of a 50,000 metric ton algae facility with a fermenter reactor of unprecedented size.
 - Led a computational fluid dynamics (CFD) study to determine the optimum mixer/impeller technology and parameters, eliminating unacceptably long lead times from traditional mixing technology vendors.
 - Expedited study results for equipment lead time requirements using contract resources.

RENTECH, INC.

2008—2011

Director, Biomass Business Development

Recruited to establish the firm in the Green energy sector.

- Developed a business strategy and project plan to secure Department of Energy (DoE) funding for a first-of-a-kind, \$300 million Green waste biomass to diesel/naphtha conversion plant.
 - Directed feasibility studies, engineering, feedstock sourcing, regulatory approvals and technology acquisition.

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- In six months, positioned the firm to begin development of a project promising significant economic and environmental benefits to the surrounding Los Angeles community, including creation of an estimated 120 new direct jobs and 800+ potential indirect jobs.

WORLD WASTE TECHNOLOGY (WWT)

2007—2008

VP, Engineering and Project Development

Recruited to join a waste conversion technology startup. WWT was looking to bring a new solution for using low-pressure steam to separate municipal solid waste for power and biofuel production.

- Directed development of a proposal for a 4x20 MW Municipal Solid Waste gasification plant.
 - Developed a proposal for the commercializing the process to segregate cellulose and plastics to produce uniform feedstock.
- Secured \$12 million in DoE funds for a novel Million Gallons per Year renewable fuels pilot plant.

DELTA-T, INC.

2005—2007

VP Technology

Directed biodiesel technology development and acquisition. Leveraged strategic alliances to open new global markets.

- Negotiated a \$40 million joint venture for ethanol production in SE Asia and India.
- Utilized advanced modeling to clear tech hurdles in a \$120 million ethanol startup. Used computer modeling software to prove a unique cost-effective concept developed in partnership with Barr-Rosine for drying fermentation slops for ethanol production. Revealed the “stiff” operating parameters of the technology, enabling the startup team to avoid risk and unnecessary problems.
- Built on an introduction to Alpha-Laval and an existing personal relationship with Japan Gas Corp. to negotiate a framework for developing a \$45 million cassava-to-ethanol plant in Vietnam with a potential \$40 million annual market. Opened the door to possible additional project in the region.

Education

BALDWIN-WALLACE COLLEGE

UNIVERSITY OF AKRON

UNIVERSITY OF AKRON

PROJECT MANAGEMENT INSTITUTE

Master of Business Administration

Bachelor of Science, Chemical Engineering

Bachelor of Science, Biology

PMP Certificate

Publications

"Efficiency of 21st Century Ethanol Plants" M.A. Fatigati. International Sugar Journal, vol. 109 184-186, 2007.

"Conserving Water in Ethanol Plants" M.A. Fatigati. Presented at BBI International Biofuels Workshop and Trade Show, San Diego, California, November 27-30, 2006.

"Performance of immobilized Zymomonas mobilis 31821 (pZB5) on actual hydrolysates produced by Arkenol technology" Yamada T., Fatigati M. A., Zhang, Min, Applied Biochemistry and Biotechnology, 98-100, 899, 2002.

"The creation of greenhouse gas benefits via bio-based fuel and chemical production within the country of Guyana" Fatigati M.A., Sumait N, OSTI, 1998.

"Methodology and Application of a Boiler Performance Diagnostic System to a Utility Boiler" Power Engineering, vol. 89, Fatigati M.A., Whitten, P., 1985.