Contact

www.linkedin.com/in/terry-mazanec-550a755 (LinkedIn)
lee-enterprises.com/ (Company)

Top Skills

Corrosion
Catalysis
Patents

Honors-Awards

ACS Green Chemistry Award 2026

Patents

Gas jet injector reactor for catalytic fast pyrolysis process
Process and apparatus employing microchannel process technology
Catalytic fast pyrolysis process with impurity removal
Copper-zirconium-manganese-containing catalysts and processes for making alcohol mixtures using same
Continuous process for the extraction and esterification of carboxylic acid

Terry Mazanec

Board Member, AMOR Feline, Inc, & Standard H2, Inc., Managing Director at LEC Partners, Inc. & Principal T-MAZ LLC
Solon, Ohio, United States

Summary

Perceptive and effective director of innovation and development activities in the chemicals, renewables, energy, and materials industries.

Successful record of translating and scaling up laboratory discoveries into viable products with broad marketability, and delivering on aggressive milestones within budget.

Recognized for flourishing in and adapting to rapidly changing environment.

Skilled at establishing, organizing, and directing partnership interactions, and directing multidisciplinary teams.

Unusually creative and innovative approach to problem solving using tools from many disciplines.

Specialties:
- Petroleum/Chemicals/Biomass/Energy Processes
- Materials, Catalysis, Corrosion, Novel Reactors
- R&D Management, Board Representation
- Process Development
- Technology Evaluation, Risk Analysis (FMEA)
- Multi-company alliances
- Intellectual Property Development, Patent evaluation, Due diligence
- Competitive Intelligence
- New Business/Venture Start-ups
- Expert witness

Contact: tmazllc@gmail.com 614 348 5019

Experience

Standard H2, Inc.
Board Member
October 2024 - Present (2 years 2 months)

T-MAZ LLC
Principal
January 2011 - Present (15 years 11 months)

Consulting in the materials, catalysis, chemicals and energy sectors.
tmazllc@gmail.com

• Board Member, Standard H2, offering Sulfur removal solutions

• Managing Director at LEC Partners, Inc., the world's premier bioeconomy consulting group with over 180 experts worldwide. Collaborate with range of professionals in many fields on due diligence, process/facility reviews, technology assessments, techno-economic analyses, Expert Witness, presentations, and analyses. Oversee and conduct consulting projects for investors, startups, and industry leaders, in renewable fuels (SAF, r-diesel, RNG), Hydrogen, chemicals, waste upgrading, plastics upcycling, and intellectual property concerns.

• Acting CTO for biomass-to-chemicals startup; initiated/outfitted permanent lab, hired staff, established technical strategy; initiated IP process; represented company with industrial partners

• Developed R&D benchmarking criteria for multi-national materials producer

• Conducted technical due diligence for VC evaluating high tech materials startup company

• Evaluated the competitiveness of a path-breaking technology for producing transport fuels and chemicals for a consortium of international industries.

• External board member for Sandia Sunshine-to-Petrol solar thermal conversion technology

• Established testing targets and laboratory for university spinoff developing novel selective oxidation catalysts

• Conducted FMEA risk analysis for a company developing an algae-to-chemicals upgrading process; drafted grant proposal to international agency for joint development program on neutraceuticals production

• Developed kinetic and reactor model for pyrolytic MSW reclamation process to produce syncrude

• Participated in technical assessment team to evaluate technical feasibility of world scale N. American natural gas to fuels process

LEC Partners

Managing Director

July 2016 - Present (10 years 5 months)

Oversight for numerous projects including those in renewable diesel, renewable natural gas, emerging technologies, biochemicals, biomaterials, intellectual property, and risk analysis at LEC Partners, Inc.

LEC Partners began as Lee Enterprises Consulting in 1995, and over the past 30 years, has grown to become the world's premier bioeconomy consulting group with over 180 bioenergy and biochemical experts worldwide. Our experts are world-renowned leaders in their field, selected based on their education, experience, and reputation, and have completed thousands of projects worldwide. LEC Partners consults in all aspects of the bioeconomy – bioenergy|biofuels, bio-based materials | chemicals, biotechnologies, and feedstocks. Our services encompass funding | due diligence, engineering | project oversight, project development | operations, and a variety of regulatory and specialty services like litigation support (expert witness), techno-economic analysis (TEA), risk analysis, insurance, accounting, and more.

Our professional engagements provide expertise & C-level experience in bio-industrial processing, bioenergy, biofuels, biomaterials, and renewable chemicals:

- Due diligence & strategic planning from start-up through commercialization; support to Board sponsored studies
- Technology, market, & economic assessments (incl. RINS evaluations)
- Post-merger technical and management transition support
- Commercial readiness including risk assessment (Due Diligence, FMEA, Red Flag analysis)

- Interim executive & technical management
- Specialists to support engineering and construction resource gaps
- Quality assurance & control
- Regulatory compliance
- Process development & solutions
- Support services through scale-up, demonstration, & commercialization.
- Expert witness & litigation support

Our experts average more than 30 years of experience in the industry.

Anellotech Inc.

CTO (Interim 2012-2014) - Consultant 2014-2025

January 2012 - December 2025 (14 years)

Assumed role as CTO at initial stage of company to help:

* Establish and outfit permanent laboratory
* Hire technical staff in catalysis and engineering
* Draft technical and scaleup strategy
* Initiate IP development process, including engaging patent counsel, developing patent strategy, and drafting patent applications and responses to Patent offices
* Represent company with industrial partners
* Establish best practice laboratory and safety protocols with young staff in fledgling organization

Velocys

Chief Scientist

2001 - 2010 (9 years)

Responsible for establishing technical strategy, developing budget and schedule, executing and coordinating safe experimental and development activities, evaluating economic potential and coordinating intellectual property development to establish Velocys microprocess technology for several major chemicals programs.

• Directed four joint technology development programs between Velocys and Fortune 100 industrial partners,

• Managed a multidisciplinary, natural gas upgrading program including three global energy companies.

o Total budget: $40+ MM,

o Recruited new international businesses into the technology development Alliance,

• Initiated three new industrial partnerships in commodity chemicals with > $20 MM budgets,

• Steered strategic direction of Velocys to markets and applications with greatest technical potential and broadest business base

• Directed experimental work of key technology teams in materials, catalysis, corrosion, coatings and vapor deposition

BP

21 years

Research Associate

1980 - 2001 (21 years)

Responsible for managing and directing technical, strategic, and financial aspects of multicompany Alliance to develop new technology for gas upgrading. Senior technical counsel for, and represented BP on executive technical Board.

• Initiated, negotiated, and co-directed 6 company technology development Alliance.,

• Initiated and directed government sponsored university research efforts of 18 scientists at 6 universities.,

• 40+ US patents, numerous international presentations, publications,

• Developed novel technology for oxygen separation and reaction using oxide ion transport membranes.

• Managed projects on behalf of BP's major business groups (Oil, Chemicals and Exploration) in Cleveland and London

• Principal Investigator of $8 MM NIST ATP project and $7 MM DOE sponsored program

Research Scientist

1980 - 2001 (21 years)

The Ohio State University

Grad Student
1974 - 1978 (4 years)

Education

The Ohio State University

Doctor of Philosophy - PhD, Inorganic Chemistry · (1974 - 1978)

University of Illinois Urbana-Champaign

PostDoc, Chemistry / Catalysis · (1979 - 1980)

The Ohio State University

PhD, Inorg Chemistry · (1974 - 1978)

Cornell University

AB, Chemistry · (1970 - 1974)

Gilmour Academy

· (1966 - 1970)