

## **Energy Mentors International LLC**

*Clean Energy and Clean Water, Good Health, and Good Jobs*

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**Advisory, Consultancy, and Higher-Education services on:**

- **Transition from Fossil Fuels to Clean & Renewable Energy:**  
Electric Power & Transport, Environment, Climate Change, Regulations & Policies, Sustainable Development Goals in USA and Globally
- **Biotechnology, Public Health, and Wellness:**  
Market Research & Analysis, Prices, Product Competition
- **Global Business Development:**  
Strategy, Policy Evaluation, Projects & Joint Ventures, Trade & Investment Analysis, Markets & Prices in the Global Energy and Biotech sectors
- **University Courses, Guest Lectures, Corporate Training:**  
Seminars on Energy, Environment, Public Health

**Energy Tech & Business Mentors to NYU, MIT, Columbia university students**

- Guidance on Internships, Research, Resume, Graduate School, and Career choices
- Student Mentors at NYU and MIT Career Development Centers
- Alumni of NYU Stern (MBA), MIT (MS ChE), NYU Tandon (BS ChE)

# Energy Mentors Retainer Advisory Services

- **Crude Oil and Refined Products**
- **US & Global Energy Fundamentals and Geopolitics**
  - Supply, Demand, Trade, Prices, Costs, Regulations, Technology, Energy and Business Outlook
- **Fracking, Natural Gas, LNG, LPG, and Gas-Liquids**
  - US & Global Geopolitics, Supply, Demand, Trade, Prices, Costs, Regulations, Technology, Outlook
- **Coal vs Natural Gas in Power Generation and Transmission**
  - US & Global Geopolitics, Supply, Demand, Trade, Prices, Costs, Regulations, Technology, Outlook
- **Wind, Solar, Waste-Biomass Energy for Power Generation, Transportation, and other uses**
  - US & Global Geopolitics, Supply, Demand, Trade, Prices, Costs, Regulations, Technology, Outlook
- **Batteries, Electric Vehicles, Renewables Research, Efficiency, Green Buildings**
- **Environmental and Climate Change Issues, Regulations, Energy Policy and SDG simulation models**
  - US & Global Geopolitics – Linkages of Energy Policy to Infrastructure, Jobs, Economic Growth, Environment, Climate Change, Public Health, Education, other SDGs  
<https://sustainabledevelopment.un.org/sdgs>
- **Biotechnology, Health, and Wellness**
  - US & Global analysis of competing biotech and high-energy products, prices, and markets for pharma, health, and wellness industries
- **Other Topics in Energy and Biotechnology**
  - US & Global items to be mutually agreed
  - Bespoke Guest Lectures and Projects

**Gabriel F. Avgerinos Summary:** Advisor, mentor, and guest lecturer on fossil fuels and renewable energy, environment, and high-energy wellness. Focus on business development, marketing, pricing, trade, and strategy. Experience in transition from fossil fuels to clean and renewable fuels with sustainability goals and policies for clients in industry, government, and academia globally. Project and marketing experience in Natural Gas, LNG, LPG, Oil, and Renewables. Advise on big-picture US and global issues, policies, and outlook on energy, environment, and wellness. Focus on market and customer research, commercial negotiations on projects and joint-ventures, competition and cost analysis, new process and product design, new technologies, customer-centric marketing, new business development, regulations, staffing and outsourcing, and corporate business strategy. Advise clients on managing change in technology, competition, and new products and services, while pursuing the UN Sustainable Development Goals (SDGs). Excellent skill set includes strategic and innovative thinking, commercial judgment, and outstanding presentation and communication. Clients include US and foreign private and government-owned companies, US and international energy and biotech firms, US and foreign governments, agencies, medical, law and financial institutions, and universities.

**2014-Present: ENERGY MENTORS INTERNATIONAL LLC - Senior Advisor Emeritus**

Forty years of experience in the global energy industry advising executives, policy-makers, companies, and governments on transitioning from carbon-heavy fuels to carbon-light energy and carbon-free renewable resources. Experience in strategic and commercial consulting, research and development, oil/gas/chemicals operations, analysis and planning, project and product evaluation, forecasting, integrated simulation and negotiation models, new business development, and marketing of consumer and industrial products and services.

- **Business development consultant** to companies on products, services, and projects for: energy infrastructure; sustainable cities and rural areas; climate change mitigation; environmental regulations; fossil fuels and renewables; energy impact on water, agriculture, food, and health; fuel supply diversity and security; energy efficiency and demand management; energy trade and pricing; power generation and transportation; high-energy wellness and biotechnology products; and education by on campus seminars and online e-healthcare and e-learning.
- **Advisor** to think-tank institutions and universities on inputs to dynamic simulation models and role-playing negotiations for formulating and adapting policies and plans for countries and states to meet their 2030 and 2050 sustainable development targets on energy and infrastructure, economic growth and jobs, healthcare, and education.
- **Guest lecturer** at seminars for companies and organizations on transition to carbon-light natural gas and carbon-free renewables for energy projects to be profitable and meet the UN Sustainable Development Goals (SDGs).
- **Expert panelist** at various business, energy, healthcare, and university seminars on renewables and fossil fuels and impacts on water, agriculture, food, health, jobs, education, greenhouse gas (GHG) emissions, and environment.
- **Mentor and advisor** to professionals, executives, and government officials on projects, trades, staffing, and policies of fossil fuels and transition to an economic and sustainable mix of fossil, nuclear, and renewable energy resources.

**2011-Present: NATURAL GAS and RENEWABLES - Business Mentor and Guest Lecturer at Universities**

*New York University: Stern School of Business, Tandon School of Engineering, School of Law, Liberal Studies Program*

*Stevens Institute of Technology: Computer and Electrical Engineering Dept, Integrated Dynamic Simulations*

*Columbia University: Knowledge, Technology, and Social Systems Seminars, Water and Pollution, The Middle East*

*Massachusetts Institute of Technology: MIT School of Chemical Engineering, MIT Sloan School of Management*

Guest lecturer and student mentor at courses on transition to clean energy business and change management. Assist on case studies for energy fuels and change management. Focus on leadership and impacts on companies by computers, internet (IoT), social media, telecommunications, data analytics, artificial intelligence (AI), robotics, technology, and energy renewables. Mentor students at NYU, Columbia, and MIT on energy and start-up companies at incubator labs. Participate in courses, panels, and online collaborative e-learning. Mentor on internships, projects, and careers. Guest lecturer on policy, business, and technology of energy and impacts on climate change, environment, and public health:

- World Crude Oil and Natural Gas Supplies, Trades, Prices, Demand, Shipping, Pipelines, and Competition
- Shale Oil and Gas Fracking: Supplies, Prices, Environment, Climate Change, and Public Health
- Managing Change at Big Oil and Gas firms for Prices, Fracking, Carbon Emissions, and Renewables
- Energy Efficiency, Buildings and Cars in Sustainable Cities, Electrification and Internet of Things (IoT)
- Smart Electric Grid, Smart Energy-net, Carbon Social Cost, Cap-and-Trade Carbon Emissions
- Education and Training by simulations and e-courses for Clean Energy and SDGs
- Managing Change for Sensors and Networks Technology, IoT, AI, Robotics, Big Data, and Social Media
- Fossil Fuels vs Clean Energy for Power Generation, Buildings, Industries, and Transport
- Cost of Solar-PV, Wind, and Fossil Fuels for Power Gen and Impacts of GHG Emissions and Pollution
- Electric Vehicles (EVs), Hybrids, and Driverless Cars with AI, Battery Power Storage, and Battery Chargers
- Distributed Generation, Battery Electricity Storage, and Heat/Cold Energy Storage
- Levelized Cost of Energy (\$/MWh) for Fossil Fuels, Nuclear, and Renewables
- Investment Tax Credits for Solar and Wind Power Gen industrial, commercial, and residential projects

**1998-2006: POTEN & PARTNERS, INC., New York - General Manager, LNG and Gas Consulting, Partner Retired December 2006**

**Poten & Partners** is a privately-held company with headquarters in NY City and offices worldwide. It provides consulting, project development, and brokerage for cargo and ship transportation of various energy products.

### **Responsibilities and Achievements**

Reported directly to the CEO and Commercial Director. Founded, staffed, expanded, and managed new business unit with all LNG, Natural Gas, and LPG energy consulting and new business development worldwide. Developed strategies and evaluated projects for importers, exporters, power generators, chemical and industrial firms to transition from carbon-heavy fuels to cleaner fuels e.g. Natural Gas, LNG, and LPG, with lower carbon emissions. Developed and expanded global marketing of advisory services and consulting retainers for private sector energy firms and national companies. Provided due diligence to international lenders working on project finance of proposed energy projects and capital investments. Managed, developed, and expanded content and marketing of LNG and LPG publications, electronic e-data services, executive training seminars, and special studies on advantages and lower costs of natural gas.

### **Selected Examples of Work**

- Marketed, negotiated, and secured consulting mandates from energy companies to support their preparation of pricing bids for LNG long-term supplies to their proposed LNG import terminals, city-gas, and power generation plants.
- Conducted commercial and strategic studies on competing natural gas and LNG suppliers for projects in countries in the Middle East, North America, South America, Africa, Europe, Russia, and Asia Pacific. Evaluated LNG supply and cost of service along the value chain. Assessed economics of natural gas vs renewable energy for power generation, pricing mechanisms, commercial contract due diligence, and competitor project profiles.
- Directed due diligence services on behalf of banks and law firms for the financing of several clean energy gas-fired power plants, LNG/LPG import terminals, ships, and export facilities. Assisted principals in the drafting of Sales and Purchase and Terminal Throughput Agreements. Supported negotiations of supply, shipping, and storage contracts.
- Presented to client companies' top management evaluations of proposed LNG export and import projects.
- Directed several project evaluations and economic feasibility studies on the demand, supply, pricing, and transportation of natural gas, LNG, LPG, and gas-liquids fuels in international markets. Advised on acquisitions.
- Planned and implemented the successful development, launch, and marketing of the strategic e-study and database "LNG Cost and Competition" on evaluation of capital investments and cost of service for LNG export and import competing projects worldwide. Report was issued jointly with Merlin Associates (Houston) in 2000 and 2004 and became the basis for close working collaboration and later acquisition of Merlin Associates by Poten & Partners.
- Planned, interviewed, hired, and managed the LNG/Gas Consulting business in NY. Developed and implemented business and marketing plan for consulting based on multiclient e-publications and retainer advisory services.

### **1997-1998: POTEN & PARTNERS, INC., New York - Manager, LPG Consulting**

#### **Responsibilities and Achievements**

Reported directly to the President/CEO. Integrated the LPG Consulting services in NY City with the LPG Commercial services located in London (UK). LPG business units for Consulting and Brokerage are currently operating in London.

### **1994-1997: POTEN & PARTNERS, INC., New York - Manager, Gas Projects Development**

#### **Responsibilities and Achievements:**

Reported directly to the President/CEO and Head of Projects. Responsible for developing new ventures in the natural gas and gas-liquids sector. Developed and negotiated the formation of a consortium of companies for an offshore oil and gas exploration project in South America, a joint-venture of US/Asian companies for onshore and offshore LNG storage terminals, and a US/Russian joint-venture for production of natural gas and derivative products in Russia.

### **1981-1994: POTEN & PARTNERS, INC., New York - Senior LPG Consultant; Manager LPG Consulting**

Reported to General Manager of Research and Consulting and then managed the LPG Consulting Department.

### **1975-1981: EXXON CHEMICALS, Linden, New Jersey; ESSO CHEMIE SAF, Rouen, France**

#### **Paramins Oil Additives - Research Analyst; Elastomers and Feedstocks - Senior Manufacturing Analyst**

Reported directly to Research and Technology Executive Director (Linden, NJ) and Product Business Executive (Darien, CT) for cost and financial analysis of Exxon Chemicals global business lines. Laboratory tests and pilot plant studies for new products, cost analysis, and capital investment evaluations for new processes, projects, and manufacturing facilities.

### **Languages**

Fluent in English and Greek. Grew up in Athens, Greece through high school. Working knowledge of French.

### **Educational Qualifications**

MBA International Business (London Business School, Paris Hautes Etudes Commerciales, New York NYU Stern) 1975-77  
MSc Chemical Engineering (MIT, Practice School Program, American Cyanamid, Atomic Energy Commission) 1973-75  
BSc Chemical Engineering (NY Polytechnic Institute, NYU Poly, now NYU Tandon School of Engineering) 1969-73

**NYU School of Professional Studies, Center for Global Affairs (CGA), February 26, 2018.**

The guest speaker was H.E. Dr. Fareed Yasseen, Ambassador of Iraq to the US. He previously served as the Iraqi Ambassador to France for six-and-a-half years, from May 2010 until he stepped down in October 2016. Prior to the end of his tenure in Paris, the experienced diplomat was awarded the Republican Medal of Honor – an award rarely given to outgoing ambassadors – by Mr. Christian Masset, Secretary General of France’s Ministry of Foreign Affairs, on behalf of the French Presidency. Before serving as Iraq’s representative in France, Ambassador Yasseen held a number of posts within the Government of Iraq, including as the Head of Policy Planning of the Ministry of Foreign Affairs and Diplomatic Advisor to former Deputy President Adil Abd al-Mahdi. He has worked for many UN agencies and leading think-tank institutions. The Ambassador of Iraq was interviewed by NYU CGA Professor Alon Ben-Meir. They discussed the situation in Iraq, including the regional conflicts that have impacted its internal and international politics, including the Sunni-Shiite conflict and the potential fallout from the defeat of ISIS. Energy Mentors participated in Q&A on Iraq’s oil production.

<http://events.scps.nyu.edu/EventList.aspx?fromdate=2/26/2018&todate=2/26/2018&view=Summary&display=Day&type=public>

**Asian Producer of High-Energy Wellness Products, 2018.**

Advisory services to top management of Asian firm for US entry strategy with high-energy wellness products. Conduct market and product research, competitor surveys, pricing and quality analysis, packaging, regulations, and trade fair evaluations for information. Evaluate possible collaborator companies for joint-venture partners in product wholesale distribution in USA.

**Electronic UN (e-UN) Working Group on Clean Energy, 2016-2018.**

Development of United Nations funding proposals, investment in energy projects, and educational guest lectures on transition to clean and renewable energy for power generation and transportation in developing and developed countries. Recent focus on policies in West Africa’s ECOWAS countries for achieving clean, renewable, and affordable energy by 2030, according to United Nations sustainable development goals (SDGs). Energy Mentors is part of the e-UN Working Group, which includes major universities, companies, and think-tank institutions in developing and developed countries. Content of proposals, projects, and guest lectures include technical, business, and policy analysis, technology vendors and cost surveys, quantitative simulation models, qualitative role-playing negotiations, education courses, and training seminars.

**Asian Biotech Research & Development Firm for biochemical products, 2018.**

Retainer advisory service on specific biochemical and biotechnical products sold in the USA and globally. Conduct research on competitor companies and products, quality and pricing, distribution and supply chain evaluation, and regulatory issues.

**Columbia University, Seminar on The Middle East, December 6, 2017.**

The seminar provides a forum for exchange of ideas and experiences by Middle East experts in various spheres. Presentation by Dr. Steven Cook who is Eni Enrico Mattei senior fellow for Middle East and Africa studies at the Council on Foreign Relations (CFR). He is an expert on Arab and Turkish politics, as well as U.S. Middle East policy. Dr. Cook led the discussion on the topic, “Change and Continuity in the Middle East: From Tunisia to Saudi Arabia.” Energy Mentors attended and participated in the Q&A with emphasis on oil and natural gas project developments and geopolitics.

<http://universityseminars.columbia.edu/seminars/the-middle-east/>

**NYU Tandon School of Engineering, November 16, 2017.**

Seminar and panel discussion on “Democracy Confronts Cyber Insecurity”. Keynote Lecture by Edward Amoroso, Distinguished Research Professor at NYU Center for Cybersecurity and CEO of TAG Cyber LLC.

<http://engineering.nyu.edu/events/2017/11/16/democracy-confronts-cyber-insecurity>

**NYU Stern School of Business, Center for Real Estate Finance Research (CREFR), November 16, 2017.**

Alumni and Students Networking Reception at Warburg Realty, NYC. Attended and mentored students in Real Estate for energy efficient and smart buildings development in major cities in USA and globally.

<http://www.stern.nyu.edu/experience-stern/about/departments-centers-initiatives/centers-of-research/center-real-estate-finance-research>

**Columbia University, Seminar on The Middle East, November 15, 2017.**

The seminar provides a forum for the exchange of ideas and experiences by Middle East experts in various spheres. Richard Nephew led the discussion on “The Future of the Iran Nuclear Agreement,” arguably one of the most significant

issues in U.S. foreign policy today. Richard is a Senior Research Scholar at the Center on Global Energy Policy. He joined the Center February 1, 2015 directly from his role as Principal Deputy Coordinator for Sanctions Policy at the Department of State, a position he held from February 2013. Richard also served as the lead sanctions expert for the U.S. team negotiating with Iran. From May 2011 to January 2013 Richard served as the Director for Iran on the National Security Staff, where he was responsible for managing a period of intense expansion of U.S. sanctions on Iran. Earlier in his career he served in the Bureau of International Security and Nonproliferation at the State Department and in the Office of Nonproliferation and International Security at the Department of Energy. Energy Mentors participated in the Q&A with emphasis on Iran's natural gas and LNG project developments and geopolitics.

<http://universityseminars.columbia.edu/seminars/the-middle-east/>

**MIT Seminar, “Climate Change Arriving at Political Consensus”,** November 15, 2017.

Participated in the MIT seminar led by MIT Sloan Professor John Sterman on “Climate Interactive” simulation model. This model is an interactive, scientifically rigorous tool that helps people see connections, play out scenarios, and evaluate what works to address the biggest challenges we face. Based on a long tradition of MIT's system dynamics modeling Climate Interactive explores the interplay between social and planetary systems. The simulations cover a range of topics, from climate change and clean energy to disaster risk reduction and resilience. Energy Mentors participated in the Q&A session and “what if” interactive simulation model on the mix of energy used by region and impact on carbon emissions, temperature, and climate change. <https://www.climateinteractive.org/>

**NYU Law School and NYU Tandon School of Engineering, Center on Law & Security,** November 13, 2017.

Conference on “US Homeland Security in the Twenty-First Century” with Jeh Johnson (former Secretary of Dept of Homeland Security) and Lisa Monaco (former Advisor to President Barack Obama on Homeland Security). The management of Homeland Security challenges has gotten substantially more challenging in the last several years. From counterterrorism, to cybersecurity, to pandemic response and the consideration of governance frameworks for Internet platforms, the White House and Department of Homeland Security are facing unprecedented challenges. The Honorable Jeh Johnson and the Honorable Lisa Monaco are two public servants with unmatched experience and expertise in managing an increasingly complex series of Twenty-First Century threats.

<https://www.lawandsecurity.org/calendar/homeland-security-twenty-first-century/>

**Columbia University, Seminar on Knowledge, Technology, and Social Systems (KTSS),** November 8, 2017.

The speaker at this seminar was John Lobell, who has been investigating and fostering creativity for many years. He presented his views on “Creativity and its Enemies”. Lobell discussed how new creations in art, science, technology, and business pull us into the future. We think of creativity as desirable and certainly as benign. The kind of creativity Lobell addresses in his book, “Visionary Creativity: How New Worlds are Born” is anything but benign. Visionary creativity brings about new worlds, and in so doing, destroys old worlds, and those invested in old worlds are not happy about it. Think of the yellow cab industry's reaction to Uber.

<http://universityseminars.columbia.edu/seminars/knowledge-technology-and-social-systems/> and <http://johnlobell.com/a-lecture-by-john-lobell/>

**The New School, Media Politics in China,** November 3, 2017.

This interesting seminar by Dr. Maria Repnikova was on the “Media Politics in China: Improvising Power under Authoritarianism”. Who watches over the party-state? In her new book Dr. Repnikova reveals the webs of an uneasy partnership between critical journalists and the state in China. More than merely a passive mouthpiece or a dissident voice, the media in China also plays a critical oversight role, one more frequently associated with liberal democracies than with authoritarian systems. Chinese central officials cautiously endorse media supervision as a feedback mechanism, as journalists carve out space for critical reporting by positioning themselves as aiding the agenda of the central state. Drawing on rare access in the field, *Media Politics in China* examines the process of guarded improvisation that has defined this volatile partnership over the past decade on a routine basis and in the aftermath of major crisis events. Combined with a comparative analysis of media politics in the Soviet Union and contemporary Russia, the book highlights the distinctiveness of Chinese journalist-state relations, as well as the renewed pressures facing them in the Xi era. Energy Mentors participated in the seminar Q&A on China and Russia media issues.

[https://events.newschool.edu/event/media\\_politics\\_in\\_china\\_improvising\\_power\\_under\\_authoritarianism#.WpA7gudry1s](https://events.newschool.edu/event/media_politics_in_china_improvising_power_under_authoritarianism#.WpA7gudry1s)

**MIT Architects Networking Seminar,** November 1, 2017.

Informal presentations and networking for new ideas on sustainable building design and construction in urban centers.

**Columbia University SIPA, Financial Markets and Policies,** October 25, 2017.

Dr. Henry Kaufman (former executive at Solomon Brothers investment bank) and President of Henry Kaufman & Co Inc, spoke about his latest book on “Tectonic Shifts in Financial Markets: People, Policies, and Institutions”. In this wide-ranging book, Kaufman recounts the events surrounding the catastrophic collapse of Lehman Brothers from his then vantage point on the board. He explains how, ironically, the Federal Reserve's shortcomings contributed to its growing power. He argues that Dodd-Frank, by sanctioning rather than truly addressing the too-big-to-fail dilemma, squandered a

rare opportunity for essential reform. Whether sparring in print with Citicorp's mercurial Walter Wriston, consulting with British Prime Minister Margaret Thatcher, spurning a deal with junk bond king Michael Milken, or reflecting on his long-time friend Paul Volcker, Kaufman brings readers inside post-war Wall Street. Looking ahead, he dissects major national and global trends and the likely future of credit markets, financial institutions, and leading economies. As we search for bearings in the wake of the 2008 financial debacle, Kaufman offers sage and penetrating analysis of today's superheated and still-fragile financial world. Energy Mentors participated in the Q&A session on new energy policy and deregulation under Trump US administration.

[https://sipa.columbia.edu/events/search?keys=Kaufman&field\\_date\\_time\\_value\\_1%5Bvalue%5D%5Bdate%5D=2017-10-23&field\\_date\\_time\\_value\\_2%5Bvalue%5D%5Bdate%5D=](https://sipa.columbia.edu/events/search?keys=Kaufman&field_date_time_value_1%5Bvalue%5D%5Bdate%5D=2017-10-23&field_date_time_value_2%5Bvalue%5D%5Bdate%5D=) and <https://www.palgrave.com/us/book/9783319483863>

**Columbia University, Seminar on The Middle East**, October 18, 2017.

Dr. Joost Hiltermann led the discussion on the topic, "How Many Shocks Can Iraq Withstand? -- the Kurdish Referendum and After." He is Program Director, Middle East & North Africa, at the International Crisis Group, an independent NGO dedicated to preventing deadly conflict, for which he has worked since 2002. Before that, Dr. Hiltermann was Executive Director of the Arms Division of Human Rights Watch (1994-2002) and database and research coordinator at the Palestinian human rights organization Al-Haq in Ramallah (1985-1990). Energy Mentors attended and participated in the Q&A with emphasis on Iraq's recovery in crude oil production and geopolitical constraints.

<http://universityseminars.columbia.edu/seminars/the-middle-east/>

**Icahn School of Medicine at Mount Sinai, SINAINnovations on Cancer**, October 17-18, 2017.

The Icahn School of Medicine at Mount Sinai hosted its sixth annual SINAINnovations conference on October 17-18, 2017. This year's theme "Cancer" included keynote addresses, short talks, panel discussions and breakout sessions featuring international thought leaders across the range of relevant domains. Sessions and lectures included: Cancer Immunology; Immunotherapy & Immune Monitoring; Viruses and Cancer; Cancer Genetics and Genomics; Personalized omics, Cancer Risk and Management; Novel Therapeutics in Cancer and Post Genomic Age; and Cancer Survivorship and Disparities. The conference defined the advances in cancer and outlined solutions to overcome obstacles to progress. Energy Mentors attended lectures and breakout sessions with Q&A on industrial pollution impact on cancer.

<http://icahn.mssm.edu/about/sinainnovations>

**NYU School of Law, Frank Guarini Center on Environmental, Energy, and Land Use Law**, October 16, 2017.

Discussion panel on "Incorporating State Public Policy Goals in Wholesale Electricity Markets." The Guarini Center and a group of leading energy policy experts discussed "Incorporating State Public Policy Goals in Wholesale Electricity Markets." Panelists examined a range of policy options for advancing state objectives, including transitioning towards low-carbon generation resources, and intersections with federal law. Energy Mentors participated in Q&A session for policies to transition from fossil fuels to renewables for US electric power generation. <http://guarinicenter.org/wholesale-electricity-markets/>

**NYU Stern School of Business, Center for Real Estate Finance Research (CREFR)**, Fall Symposium, October 13, 2017.

The topic of the whole-day conference was "The State of Retail Real Estate: What's in Store". Speakers and panelists covered issues including real estate market update, markets' view of retail stress, decline of the suburban mall, retail on High Street vs Main Street, and real estate winners from e-commerce. Energy Mentors attended lectures and panel discussions with focus on sustainable buildings and e-commerce. <http://www.stern.nyu.edu/experience-stern/about/departments-centers-initiatives/centers-of-research/center-real-estate-finance-research/events/past-events/fall-symposium-2017-state-retail-real-estate-what-s-store>

**NYU School of Law, Frank Guarini Center on Environmental, Energy, and Land Use Law**, October 2, 2017.

The event was entitled, "Greening New York City's Homes: A Transatlantic Dialogue between NY City and Baden-Württemberg, Germany." Keynote speaker was Franz Untersteller, Minister of the Environment, Climate Protection and Energy Sector, Baden-Württemberg. Guest panelist was John Lee, Deputy Director for Green Buildings and Energy Efficiency, New York City Mayor's Office of Sustainability. As the Trump Administration rolls back federal environmental regulation, New York City's efforts to reduce greenhouse gas (GHG) emissions 80% by 2050 have become all the more essential. While the City has begun implementing policies to advance its climate goals, much more is needed. Of particular note, the City has enacted relatively few policies targeting energy efficiency improvements in small residential buildings, which account for roughly 20% of the sector's GHG emissions. As local policymakers contemplate policy options for the path forward for these properties, they would benefit from dialogue with counterparts in Germany about strategies that have been experimented with there. The event facilitated the needed dialogue, focusing on policies that have been implemented in the German city of Baden-Württemberg, which has enacted a legally binding commitment to reduce greenhouse gas emissions by 90% by the year 2050 and has devised a number of innovative policies for the building sector to help achieve that end. At the event, we discussed these programs and their relevance for New York City. We also reviewed the current regulations governing building energy use in New York City and proposals for new

legislation. Energy Mentors participated in the seminar dialogue with Q&A on need for upgraded and new infrastructure for power generation and long-distance high-voltage electricity transmission from wind/solar power resources in remote rural areas and offshore to high-density population centers.

<http://guarinicenter.org/greening-new-york-citys-homes-a-transatlantic-dialogue-with-baden-wuerttemberg/>

**Columbia University, Seminar on Pollution and Water Resources**, September 28, 2017.

This scientific seminar was on “US Trends in Water-Related Infectious Disease Rates Correlated to Climate Change Processes”. The speaker was Dr. Kimberly J. Taylor, Chief, Division of Microbiology, Pacific Northwest University of Health Sciences. Global climate change, including changes in precipitation, temperature, and wind, are driven by altered atmospheric chemistry. These influence human health and microbial fitness, including the transmission of water-related and water-dependent microbial agents of disease (i.e. *disease microbes whose transmission to humans depends on water directly, or via a vector whose life cycle depends on water*). This seminar addressed the general transmission rates of these diseases for the continental United States during documented climate change processes. The research suggests the need for a system-based, inter-professional global recognition of the correlation between water-related human infectious diseases and the climate change phenomenon. Energy Mentors discussed with Dr. Taylor the impact of oil/gas US fracking waste-water effluent on water quality, treatment required, and climate change.

<http://universityseminars.columbia.edu/seminars/pollution-and-water-resources-scientific-and-institutional-aspects/>

**NYU Tandon School of Engineering, US Policies for Renewable Energy**, September-December, 2017.

Energy Mentors provided Guest Lecturer at graduate level course with NYU Professor Richard Thorsen on US Policy for **Clean and Renewable Energy** with focus on solar, wind, and waste-biomass. The lectures cover Policy and Regulatory Constraints on Renewable Energy, Energy Fundamentals, Infrastructure, Technology, Business, and Environmental issues for the USA and other key countries. Mentored students for their projects on energy policy. Participated in experts’ panel for review and commentary on students’ presentations on their projects on energy policy in various countries. This graduate course, **ME-GY 6823 Energy Policy, Regulations, and Incentives** focuses on impact of local, state and national policy on energy choices. Regulatory limitations and incentives influencing energy options and economics. Quantitative trade off analyses of various technically feasible options when policies, regulations and incentives are considered. Positive and negative environmental impacts of energy systems are analyzed. Costs of mitigating negative environmental impacts are reviewed. The choices of energy systems are analyzed through case studies presented in term papers.

<http://engineering.nyu.edu/people/richard-s-thorsen>

**NYU Tandon School of Engineering, US Policies for Fossil Fuels Energy**, September-December, 2017.

Energy Mentors provided Guest Lecturer at graduate level course with NYU Professor Richard Thorsen on US Policy for **Fossil Fuels** with focus on crude oil, natural gas, and coal. Emphasis on global and US supply, demand, prices, and geopolitics. The lectures cover Policy and Regulatory Constraints on Fossil Fuels, as well as Energy Fundamentals, Infrastructure, Technology, Business, and Environmental issues for the USA and other key countries. Mentored students for their projects on energy policy. Participated in experts’ panel for review and commentary on students’ presentations on their projects on energy policy in various countries. This graduate course, **ME-GY 6823 Energy Policy, Regulations, and Incentives** focuses on impact of local, state and national policy on energy choices. Regulatory limitations and incentives influencing energy options and economics. Quantitative trade off analyses of various technically feasible options when policies, regulations and incentives are considered. Positive and negative environmental impacts of energy systems are analyzed. Costs of mitigating negative environmental impacts are reviewed. The choices of energy systems are analyzed through case studies presented in term papers. <http://engineering.nyu.edu/people/richard-s-thorsen>

**United Nations Multi-stakeholder STI Forum for the SDGs**, May 15-16, 2017.

The theme of the 2017 High-level Political Forum on Sustainable Development (HLPF) is “Eradicating poverty and promoting prosperity in a changing world”, and the Member States have decided that the HLPF 2017 shall focus on six SDGs (1, 2, 3, 5, 9 and 14) in addition to SDG 17 that will be considered at each HLPF. In this context, the following topic may be considered for the Science Technology Innovation (STI) Forum 2017: “Science, Technology and Innovation for a Changing World - Focus on SDGs 1, 2, 3, 5, 9, and 14”. Energy Mentors participated in this event and networked with delegates for SDG development updates. <https://sustainabledevelopment.un.org/TFM/STIForum2017>

**Columbia University, Seminar on Knowledge, Technology, and Social Systems (KTSS)**, May 10, 2017.

Dr. Priscilla Elfrey presented on the “The Goals of Simulation”. Priscilla leads the Kennedy Space Center’s simulation strategy, and communication for the NASA Advanced Concepts Laboratory team. She is also the co-founder of the Center for Life Cycle Design and Executive Chair of the Simulation Exploration Experience (SEE) in which industry and academic groups partner with the government to increase college student employability. SEE’s far flung teams learn simulation, which is dynamic, interoperable, and distributed. They collaborate remotely to create a virtual space mission. Formerly, Priscilla directed the formation of the National Center for Simulation, created award-winning videos for NASA’s commercial use in the space program, and led Spacelab’s hands-on workforce development. Earlier as NASA HQ executive development officer, she designed its senior executive programs. Prior to NASA, Priscilla was a founder of



two Off-Off Broadway theaters, also directing dramatics, and taught and led a NYC poverty program, with NYU enriched on-the-job training & organizational development. She later managed Yale's University Staff Communication & Training and, as a Yale senior administrator, she was the first woman Associate Dean of Yale College, post-graduate career strategy & implementation, reviving its moribund Career Advisory Service. Recognized as a "Notable Barnard College Alumna", Priscilla did graduate work at Columbia University, NYU, and the Cornell School of Industrial and Labor Relations. She was a Fellow of Calhoun College at Yale & Florida Atlantic University's Center for Electronic Communication. She is a conference organizer, speaker, as well as the author of numerous simulation conference papers, and "The Hidden Agenda" (John Wiley). She received NASA's Commendation for work in Models and Simulation, SISO's Meritorious Service Award for expanding interest in simulation, and the NASA Medal for Outstanding Achievement. Energy Mentors participated in the Q&A session and later collaborated with SEE on various ideas for education in simulation. <http://universityseminars.columbia.edu/seminars/knowledge-technology-and-social-systems/> and <https://www.dropbox.com/s/jsgq4yvr5el0dpz/Sim%20%20Maype%20copy.pptx?dl=0>

**NYU Tandon School of Engineering, Mentor Students, May 9, 2017.**

Energy Mentors volunteered and mentored US and foreign engineering NYU students on job seeking techniques for career paths in the energy and computer technology industries.

**NYU Stern School of Business, Entrepreneurs Challenge, May 5, 2017.**

At the conclusion of an eight-month competition, NYU's most promising student innovators received a combined \$300,000 in start-up cash and valued services at the annual \$300K Entrepreneurs Challenge, held by NYU Stern's W. R. Berkley Innovation Labs. May 5 marked the culmination of one of the largest and most rigorous venture competitions in the world. Some 186 teams comprising more than 600 students, faculty, and alumni from 16 schools across NYU's global network competed this year in one of three challenges: New Venture, Social Venture, and Technology Venture. Energy Mentors advises some students on their team ventures.

<http://www.stern.nyu.edu/experience-stern/news-events/300k-entrepreneurs-challenge-final-pitch-and-awards-ceremony-0>

**NYU School of Law, Frank Guarini Center on Environmental, Energy, and Land Use Law, May 2, 2017.**

This panel event was on the topic of "The Generator's Perspective: The Outlook for Coal, Gas, and Nuclear Power Under Trump". The discussion with energy industry experts covered the legal, regulatory, and market factors affecting the outlook for coal and natural gas fired generation in the United States. Panelists included:

- Catherine Callaway James, Executive Vice President, General Counsel and Chief Compliance Officer, Dynegy
- Robert Mancini ('84), Managing Director & Co-Head of CPP-II, The Carlyle Group
- Zamir Rauf, Executive Vice President and Chief Financial Officer, Calpine Corp.
- Gary Rygh, Managing Director, Barclays
- Michael Shenberg ('85), Partner, White and Case LLP

Energy Mentors participated in Q&A panel discussion with focus on US power generation using fossil and nuclear fuels vs transition to renewable energy resources. <http://guarinicenter.org/generators-outlook-natural-gas-coal-trump/>

**NYU Tandon School of Engineering, Back to School Day, April 22, 2017.**

Networking session with NYU Tandon alumni and updates on engineering and technology research.

<http://engineering.nyu.edu/events/2017/04/22/back-school-day-golden-jubilee-induction-ceremony-2017-0>

**Columbia University, SIPA, Discordia Oil Development Simulation & Negotiation Game, April 7-8, 2017.**

Energy Mentors participated as Energy Advisor to about 20 student teams at Columbia University's School International Public Affairs (SIPA). Discordia is a typical gaming negotiation exercise titled "Oil, Rights, and Development". This exercise is on an oil discovery and development in a West African fictitious country (similar to Nigeria) recovering from a recent civil war and world oil and natural gas price collapse. This negotiation exercise involves the following types of stakeholders: Government; Opposition Party; several Foreign Oil/Gas Companies; Local Community; several Non-Government Organizations (NGOs) concerned with Environment, Development, Human Rights, and anti-Corruption; US-based Think-Tank Institute on strategic issues; and four different News Media organizations. Participating teams play out their roles over a full year of simulated time, negotiating and reacting to the behavior of others, and to new information which is injected, and leading up to the making of critical decision – or not.

**NYU School of Professional Studies, Center for Global Affairs (CGA), April 4, 2017.**

Interview by NYU CGA Director and Professor Carolyn Kissane with Antoine Half, Fellow and Program Director, Global Oil Markets at Columbia University SIPA, Center on Global Energy Policy. Interview and discussion was on "China and India vs USA Energy Outlook & Security". Energy Mentors held Q&A on geopolitics and fossil fuels.

[http://events.scps.nyu.edu/EventList.aspx?fromdate=2/23/2018&todate=3/24/2018&display=&type=public&eventidn=2817&view=EventDetails&information\\_id=6285](http://events.scps.nyu.edu/EventList.aspx?fromdate=2/23/2018&todate=3/24/2018&display=&type=public&eventidn=2817&view=EventDetails&information_id=6285)

**Columbia University, Seminar on The Middle East, March 22, 2017.**

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One of the most significant events of the past decade in the Middle East was the sudden series of uprisings in countries across the entire region. Although the results have varied, two of the countries that experienced a popular revolt, Egypt and Tunisia, had dramatic changes of government. The speaker Dr. David B. Ottaway is a veteran observer of the Middle East. He worked 35 years for The Washington Post as a foreign correspondent in the Middle East, Africa and Southern Europe and later as a national security and investigative reporter in Washington before retiring in 2006. He has won numerous awards for his reporting at home and abroad and was twice nominated a finalist for the Pulitzer Prize. Ottaway was a Fellow at the Woodrow Wilson International Center for Scholars in 1979-80 and again in 2005-06. He is currently a Middle East Fellow there. His most recent book, published in January 2017, is “The Arab World Upended: Revolution and Its Aftermath in Tunisia and Egypt”. He is also author of “The King’s Messenger: Prince Bandar bin Sultan and America’s Tangled Relationship with Saudi Arabia” published in 2008. Dr. Ottaway led the group discussion on “Revolution and its Aftermath in Tunisia and Egypt.” Energy Mentors attended the seminar and Q&A on geopolitics of natural gas exports in Egypt.

[https://www.amazon.com/Arab-World-Upended-Revolution-Aftermath/dp/1626376204/ref=sr\\_1\\_1?s=books&ie=UTF8&qid=1488304291&sr=1-1&keywords=dauid+ottaway](https://www.amazon.com/Arab-World-Upended-Revolution-Aftermath/dp/1626376204/ref=sr_1_1?s=books&ie=UTF8&qid=1488304291&sr=1-1&keywords=dauid+ottaway) and <http://universityseminars.columbia.edu/seminars/the-middle-east/>

**The New School, Workshop of Practitioners in Sustainable Ten Cities in USA and South America**, March 20, 2017. The Urban Ecology Lab studies the dynamics of interacting social, ecological, and technical infrastructure components of urban systems for improving policy and planning towards more equitable, resilient, and sustainable cities. This was a workshop of climate change urban practitioners in 10 major cities, five in USA and five in South America. Programs for urban infrastructure and buildings were compared and discussed across all cities representatives regarding mitigation of climate change, especially for coastal and desert areas. Energy Mentors participated for discussion of fossil fuels vs. renewable energy resources impact on sustainable cities and climate change. <http://urbansystemslab.com/>

**NYU School of Law, Frank Guarini Center on Environmental, Energy, and Land Use Law**, March 20, 2017. New York City’s strategy to reduce greenhouse gas emissions 80% by the year 2050 provides both a challenge and an opportunity for the world of transportation. What is certain is that in order to reach this goal, New York City will have to dramatically shift away from personal car usage to more sustainable modes. In a city of 8.6 million people, where streets have long been designed for private cars instead of people, where do we begin to claim road space for a low- (and no-) emissions future? How can we both incentivize low-emission travel and pursue designs and policies that discourage driving? Low-emissions zones, car-free streets, car-free days, parking reform, and restrictions on high-emission vehicles can all move the needle on climate change, as well as influence how we think about street space. This discussion was on how we can make more room on NYC streets for low- and no-emissions travel. The panelists were:

- Vishaan Chakrabarti (Moderator), Founder, Practice for Architecture and Urbanism
- Frederick Harris (’79), Managing Director, Jonathan Rose Companies
- Julia Kite, Policy and Research Manager, Transportation Alternatives
- Benjamin Mandel, Renewable Energy Policy Advisor, New York City Mayor’s Office of Sustainability

The panelists examined reclaiming space for sustainable transportation through four lenses: the curb, the street, the neighborhood, and the city. They also discussed the legal framework for implementing these changes.

<http://guarinicenter.org/nyc-low-emissions/>

**New York Build 2017 Summit and Expo**, March 15-16, 2017.

The 2017 Summit was the biggest edition to date with more visitors, speakers, knowledge sessions, workshops, and networking events than ever before. The event features 8 specialist summits that accurately reflect the trends within the industry. Sessions include: Property Technology, Future Construction, Digital Construction & Architecture, Flooding Resiliency, Residential Construction & Affordable Homes, Government Contracts & Regulation, Sustainability and Health & Safety. In attendance were 150+ industry leading vendors, thought leaders, and thousands of building industry professionals. Energy Mentors participated and networked with vendors on both days for clients focused on sustainable and energy efficient buildings. <http://newyorkbuildexpo.com/sustainability-summit/>

**European Clean Energy Management Firm**, February-June, 2017.

Marketing advisory service on US contacts for energy management services of European company. Researched, surveyed, and introduced potential customers in NY city area, including universities, hospitals, architects, and construction companies interested in clean and efficient energy management services for buildings, according to the guidelines set by the United Nations on sustainable development goals (SDGs).

**New York University, Stern School of Business, course Managing Change**, 2015-2017.

Guest Speaker for NYU class with Professor Anat Lechner. On several occasions held class discussions with students on companies managing change in the energy and cleantech business, transition from fossil fuels to renewables, manufacturing, and consumer goods and services and their impact from new technology. Mentor to students on their projects and presentations on companies’ vision, strategy, change plan, and effective use of Internet of Things, Big Data

Analytics, Artificial Intelligence, Robotics, and Cleantech across various sectors: energy, chemicals, manufacturing, computers and telecommunications, pharmaceuticals, food, education, and healthcare.

<http://www.stern.nyu.edu/programs-admissions/full-time-mba/academics/specializations/leadership-and-change-management> and <http://www.stern.nyu.edu/faculty/bio/anat-lechner>

**NYU School of Law, Frank Guarini Center on Environmental, Energy, and Land Use Law**, February 28, 2017.

The seminar topic was “A Conversation on Green Buildings and Why Greenwashing Must Stop” with real estate developer Anthony E. Malkin, Chairman of Empire State Realty Trust. In 2009, Malkin joined former President Bill Clinton and others to announce a pioneering initiative to retrofit a portfolio of properties in New York City, including the Empire State Building. The initiative has been a powerful vehicle for change; at the Empire State Building, energy use has declined nearly 40% since the retrofits were completed all while improving tenant comfort. On February 28<sup>th</sup>, Anthony Malkin joined us for a discussion about lessons learned during the retrofits of his properties and reforms that are needed to inspire more building owners to implement meaningful energy efficiency improvements. The conversation was moderated by Cecil Scheib, Chief Program Officer at Urban Green Council. <http://guarinicenter.org/efficient-buildings/>

**Columbia University, Seminar on The Middle East**, February 15, 2017.

Iraq is at the very heart of the Middle East and developments there shape what happens in the rest of the region. Iraq is the land of the Tigris and Euphrates Rivers, a country that has been the breadbasket of the region in the past, but it also sits on some of the richest oil reserves in the world. It is an Arab land but also majority Shia. Its relations with Iran in the past have been dominated by rivalry and warfare, but now have evolved into a complex relationship that is seen by many Arabs as threatening. The Kurdish population in the north has carved out a semi-autonomous political structure but relies on its relationship with Baghdad in many important ways. The northwest part of Iraq was taken over by ISIS, and it is there that the battle to defeat the so-called Caliphate is most intense. Many regard the Iraqi political system as incapable of dealing with so many contradictions and threats simultaneously. This seminar’s speaker was Luay al-Khatteeb who is the founding director of the Iraq Energy Institute, co-founder of Iraq Heritage, nonresident Fellow at the Center on Global Energy Policy (Columbia University-SIPA), and honorary advisor to the Federal Parliament of Iraq on Energy and Economy. His past experience spans over twenty years in business development and public policy with executive capacities as director and senior advisor to various international oil companies, commercial banks and management consulting firms. In addition to his professional commitments, al-Khatteeb is an active participant and contributor to the Brookings Institution (as a former foreign policy fellow), Chatham House, Harvard Kennedy School of Government, and the Revenue Watch Institute. He is a frequent commentator in mainstream media on issues related to energy security, regional economy, and politics in the Middle East. His writing has appeared in Foreign Affairs, New York Times, Huffington Post, Al-Monitor, CNN, MEES, Petroleum Economist, About-Oil by AGI, Oil & Gas Year, and The National. Al-Khatteeb led the seminar discussion on the topic of “Is Iraq a Failed State?” Energy Mentors attended the seminar and engaged in Q&A on Iraq’s crude oil and gas production and export activities and future plans.

<http://universityseminars.columbia.edu/seminars/the-middle-east/>

**Oil & Gas Journal Online Webcast, Annual Oil & Gas Forecast Review**, February 10, 2017.

OPEC and allies seek to regain control over oil supply. Questions linger over global oil demand. And political surprises promise big policy changes in the United States and elsewhere. Oil & Gas Journal’s annual Forecast & Review Webcast examined these and other pressures which make 2017 an eventful year for oil and gas markets. As always, participants in the webcast were able to submit questions to the presenters. Online presentation and Q&A discussion was on Global and US crude oil and natural gas forecast of supply, demand, trade, and pricing. Energy Members participate as active subscribers to Oil & Gas Journal. <http://www.ogj.com/webcasts/2017/02/annual-forecast-and-review-2017.html>

**Columbia University Club, Columbia SIPA, Center on Global Energy Policy**, January 31, 2017.

A presentation by BP’s Group Chief Economist Spencer Dale on the “BP Energy Outlook, 2017 edition” for 1995 to 2035. Energy Mentors actively participated in Q&A discussions and follow-up on fossil fuels vs. renewable resources forecasts.

**Columbia University, Seminar on Knowledge, Technology, and Social Systems (KTSS)**, December 14, 2016.

Technologies, scientific transformations, and new areas of knowledge are continuously, and rapidly, being introduced. These developments are transforming social systems around the world. Computers were a defining element of the last part of the 20th century. Biology is poised to become the major domain transforming the first part of the 21st century. The topic of this seminar was “Biological Art: The Intersection of Science, Religion, and Modern Oblivion” by Diana Moore who is a biopharmaceutical professional, curator of an environmental mission-based fine art gallery, and a bioartist. Her work combines scientific processes and its accoutrements with the religious imagery and materials of medieval devotional objects. <http://universityseminars.columbia.edu/seminars/knowledge-technology-and-social-systems/>

**Columbia University, Seminar on The Middle East**, December 7, 2016.

The seminar provides a forum for the exchange of ideas and experiences by Middle East experts in various spheres. Presentation by Bernard Haykel who is a historian of the Arabian Peninsula and a scholar of Islamic law and Islamic political movements. He is professor of Near Eastern Studies at Princeton University where he is also director of the Institute for the Transregional Study of the Contemporary Middle East, North Africa and Central Asia. This seminar topic was “Saudi Arabia at the End of the Obama Era”. Attended and participated in the Q&A for oil and natural gas developments. <http://universityseminars.columbia.edu/seminars/the-middle-east/>

**Symposium at United Nations**, December 6, 2016.

A symposium on “Autism in Africa: Life Saving Awareness Implementing the United Nations 2030 Agenda for Sustainable Development” was held at UN Headquarters in NYC. Presentations and Panel discussions by Ambassadors of Zambia, Uganda, Malawi, Angola, Kenya, Japan, Israel, Poland, Minister of Nigeria, and other government officials, medical professionals, academics, and autism caregivers and family support groups. <http://southsouthnews.com/south-south-news/ssn-features/448-un-coverage/un-main-bodies/123398-addressing-autism-in-africa>

**Columbia University, Seminar on The Middle East**, November 16, 2016.

The seminar provides a forum for the exchange of ideas and experiences by Middle East experts in various spheres — business, banking and investment, federal service, the foundations, the media, the liberal professions, and academia. Presentation by Mr. Daniel Levy who is the President of the US/Middle East Project, an independent policy institute whose mission is to provide analysis of Middle East regional developments. Seminar topic was “New US administration. Old Middle East. What next?” Participated in the energy-related Q&A session re: policy. <http://universityseminars.columbia.edu/seminars/the-middle-east/>

**NYU School of Law, Frank Guarini Center on Environmental, Energy, and Land Use Law**, November 14, 2016.

“State Electricity Regulation in the Shadow of Hughes and EPSA”. Attended panel discussion on US electricity States vs Federal regulations and policies. <http://guarinicenter.org/state-electricity-regulation-hughes-epsa/>

**NYU Stern School of Business, Center for Real Estate Finance Research (CREFR)**, November 10, 2016.

Alumni and Student Networking Reception at Warburg Realty, NYC. Attended and mentored students in Real Estate for energy efficient and smart buildings development in major cities in USA and globally. <http://www.stern.nyu.edu/experience-stern/about/departments-centers-initiatives/centers-of-research/center-real-estate-finance-research>

**NYU Stern School of Business, Stern Healthcare Association (SHA)**, October 28, 2016.

“The Changing Face of Healthcare” on the subjects of Vaccines and Global Public Health, Emerging Technologies Big Data and Analytics, Bioethics in Global Public Health, Intelligence and Sustainable Security in Healthcare Organizations. This event centered specifically on the ways in which technology and innovation are changing the business of healthcare. Explored ways the industry, stimulated by new technologies and unique partnerships, is evolving to create more transparency, efficiency, and effectiveness in the healthcare system. Discussions revolved around topics like big data, precision medicine, and drug development, and how healthcare experts perceive and foresee these changes. Attended and participated in Q&A discussions on energy impacts on healthcare. <http://www.nyusternmbaconferences.com/healthcare>

**Columbia University, Seminar on Pollution and Water Resources**, October 27, 2016.

The purpose of this seminar is to explore the effects of pollution and environmental regulation on water and related environmental resources. Technical presentation on “Untreated Wastewater Discharges to NYC Waterways Enhance Greenhouse Gas Emissions from the Hudson River Estuary”, by Brian Brigham, CUNY Dept of Earth and Environmental Sciences, City University of New York. Chair and Affiliation: Dr. Richard W. Lo Pinto, Professor of Biology, Fairleigh Dickinson University. Attended presentation and participated in Q&A discussion. <http://universityseminars.columbia.edu/seminars/pollution-and-water-resources-scientific-and-institutional-aspects/>

**Icahn-Mt. Sinai School of Medicine, SINAINnovations**, October 25-26, 2016.

Conference about “Therapeutic Discovery” on the subjects of Drug Development in Academia; Target Identification and Validation; Industry-Academic Medical Center Partnerships; Funding Drug Discovery; Health Disparities and Drug Discovery for the Developing World; Clinical Trial Advances and Novel First-in-man Approaches, and Therapeutic Frontiers in Oncology. Attended and participated in discussions at several panel sessions on therapeutic discovery. <http://icahn.mssm.edu/about/sinainnovations>

**Columbia University, Seminar on Knowledge, Technology, and Social Systems (KTSS)**, October 19, 2016.

Technologies, scientific transformations, and new areas of knowledge are continuously, and rapidly, being introduced. These developments are transforming social systems around the world. The topic of this seminar was “The 2030 Agenda for Sustainable Development: A KTSS Perspective”. Presentation and Q&A discussion by Dr. Francois Fortier, Inter-regional Advisor in Sustainable Development Policy at the United Nations Department of Economic and Social Affairs

(UNDESA). Presiding Chairs and Affiliations, Columbia University Professors: Jerry Spivack, Sidney Greenfield, and Takeshi Utsumi. Attended and participated in the Q&A discussion on clean energy and SDGs.

<http://universityseminars.columbia.edu/seminars/knowledge-technology-and-social-systems/>

**NYU Stern School of Business, Center for Real Estate Finance Research (CREFR)**, October 19, 2016.

5<sup>th</sup> CREFR Annual Fall Symposium, “How Will the US Elections Shape the Real Estate Industry?”

Attended panel sessions and participated in Q&A discussions. <http://www.stern.nyu.edu/experience-stern/news-events/stern-s-center-real-estate-finance-research-hosts-fifth-annual-fall-symposium>

**The New School, India China Institute (ICI)**, September 30, 2016.

Attended presentations by Student Interns on their summer projects in China and India.

<http://www.indiachinainstitute.org/>

**NYU Graduate and Professional Schools Fair**, September 26, 2016.

Attended and mentored students.

**NYU School of Law, Frank Guarini Center on Environmental, Energy, and Land Use Law**, September 22, 2016.

“Voice of Climate Change in the Middle East: UAE Perspectives on Climate Action”, a conversation with Dr. Thani Ahmed Al Zeyoudi, UAE Minister of Climate Change and Environment. Attended interview and participated in discussion on energy and SDG goals for the UAE and the Middle East. <http://guarinicenter.org/sept-22-2016-voice-of-climate-change-in-the-middle-east/>

**Confederation of Danish Industry (DI). Denmark Cleantech Hub**, September 20, 2016.

“Urban Innovation for Livable Cities”, Conference NYC. Attended speeches on Sustainable Development and workshop on “Promoting Innovative Energy Partnerships”.

<http://di.dk/Marked/faaoverblik/Nordamerika/Pages/UrbanInnovationforLivableCitiesConference2.aspx>

**United Nations**, September 19-23, 2016.

Anniversary of “Sustainable Development Goals” (SDGs), United Nations Headquarters in NY City. Attended several events and participated in panel discussions for clean energy and water and impact on public health.

<http://www.un.org/sustainabledevelopment/blog/2016/09/media-advisory-first-anniversary-of-sdgs-to-be-marked-at-general-assembly/>

**The New School, Schwartz Center for Economic Policy Analysis (SCEPA)**. September 19, 2016.

“The Economics of Climate Change”. Attended presentation by Professor Pavel Kabat and Q&A discussion.

**Columbia University, Seminar on Pollution and Water Resources**, September 15, 2016.

The purpose of this seminar is to explore the effects pollution and environmental regulation on water and related environmental resources. Presentation on “Hazards and Benefits of Fracking for Natural Gas”, by Dr. Alexander Gates, Professor of Earth and Environmental Sciences, Rutgers University. Chair and Affiliation: Dr. Richard W. Lo Pinto, Professor of Biology, Fairleigh Dickinson University. Attended presentation and participated in Q&A discussion on hydraulic fracturing (fracking) technology, business, and regulations.

<http://universityseminars.columbia.edu/seminars/pollution-and-water-resources-scientific-and-institutional-aspects/>

**New York University, Stern School of Business, Berkley Entrepreneurship and Innovation**, September 14, 2016.

“300K Entrepreneurs Challenge”. Attended student competition of start-up companies and mentored student team.

<http://www.stern.nyu.edu/experience-stern/about/departments-centers-initiatives/centers-of-research/w-r-berkley-innovation-lab/for-nyu-entrepreneurs/competitions/300k-entrepreneurs-challenge>

**Danish Cleantech Hub, Energy Exchange**, June 16, 2016.

Workshops on “Energy Performance, Energy Retrofitting, and Sustainable Building Materials”.

Attended and participated in panel discussions <http://di.dk/English/dch/Pages/About.aspx>

**NYU School of Law, Frank Guarini Center on Environmental, Energy, and Land Use Law**, June 13, 2016.

“Managing the Renewable Grid: A Transatlantic Dialogue”. Attended and participated in discussions.

<http://guarinicenter.org/renewable-grid/>

**Inaugural Agora, Royal Academy of Science International Trust (RASIT) and EkoRE**, UN NYC, June 6, 2016.

Goals of Sustainable Energy for All (SE4All), “Universal Energy Access, Energy Efficiency, Use of Renewables”.

Guest at inaugural conference and participated in discussions on renewable energy projects and investments.

<http://www.se4all.org/> and <http://www.iisd.ca/energy/agora/2016/>

**NYU School of Law, Frank Guarini Center on Environmental, Energy, and Land Use Law**, April 4, 2016.  
“Natural Gas Fired Generation in the US: Looking at the Road Ahead”. Attended and participated in discussions.  
<http://guarinicenter.org/april-4-the-outlook-for-natural-gas-fired-generation-in-the-u-s/>

**Columbia University, Seminar on Knowledge, Technology, and Social Systems (KTSS)**, February 10, 2016.  
Technologies, scientific transformations, and new areas of knowledge are continuously, and rapidly, being introduced. These developments are transforming social systems around the world. The topic of this seminar was “**Renewable Clean Energies, Fossil Fuels and Pollution, Climate Change, and Public Health Disasters**” presented by GF Avgerinos. Presiding Chairs and Affiliations, Columbia University Professors: Jerry Spivack, Sidney Greenfield, Takeshi Utsumi. Presentation and Q&A discussion led by Gabriel F. Avgerinos, Senior Advisor, Energy Mentors International LLC.  
<http://universityseminars.columbia.edu/seminars/knowledge-technology-and-social-systems/>

**New York University, Spark Clean Energy Venture Series Event**, December 7, 2015.  
“The State of the Energy Market, US focus”. Panel discussion with Riju Agrawal (Blackstone Group), Erika Harris (NYC ACRE Urban Future Lab), and Gabriel F. Avgerinos (Energy Executive, retired, Energy Mentor and Business Advisor). Panel Moderator: Akbar Hassonjee (NYU Stern and ACRE Urban Future Lab).  
<https://www.facebook.com/Earthmattersnyu/>

**Icahn-Mt. Sinai School of Medicine, SINAINnovations**, October 27-28, 2015.  
Conference about “Digital Healthcare” on Technology Future of Health and Medicine, Educating the Digital Doctors of Tomorrow, Digital Innovation in Medical Imaging, Precision Medicine, Global Public Health Innovation, Legal and Ethical Issues in Digital Medicine, The Role of Hardware in Digital Medicine, Trainee Entrepreneurship Forum, Definitive Diagnosis and Precise Therapy Enabled by Digital Health Innovation, Quantified Disease Prevention, Adoption of Digital Technology in Healthcare, The Digital Hospital of Tomorrow, Translating Trillion Points of Data into Therapies, Diagnostics, and New Insights into Disease, and Economics of Digital Medicine. Attended and participated in discussions at several panel sessions on digital healthcare. <http://icahn.mssm.edu/about/sinainnovations>

**New York University, Stern School of Business, course Managing Change**, October 16, 2015.  
“Technology Changes: Electric Vehicles, Hybrids, Batteries, Chargers”, NYU Classes posting by GF Avgerinos.

**New York University, Stern School of Business, course Emerging Innovations in Energy**, September 14, 2015.  
“Oil, Gas, Renewables Business: Environment, Climate Change, and Public Health”.  
Seminar and presentation by Energy Business Mentor and Senior Advisor Gabriel F. Avgerinos.

**New York University, Stern School of Business, course Emerging Innovations in Energy**, September 2, 2015.  
“Changes in the Oil and Gas industry regarding Energy and Environment”, seminar by Gabriel F. Avgerinos.

**New York University, Stern School of Business, course Emerging Innovations in Energy**, August 27, 2015.  
“Timeline of World Oil Price Collapse from August 2014 to August 2015”, NYU Classes posting by GF Avgerinos.

**New York University, Stern School of Business, course Emerging Innovations in Energy**, August 27, 2015.  
“China Economy Updates June - August 2015”, NYU Classes posting by GF Avgerinos.

**New York University, Stern School of Business, course Emerging Innovations in Energy**, 2014-2015.  
Guest Speaker for NYU class with Professor Sunder Narayanan. Frequent Guest Lecturer and Discussion Moderator on Energy and Cleantech business course: fossil fuels, climate change, public health, renewable energies.  
<http://www.stern.nyu.edu/portal-partners/current-students/undergraduate/academics/research-practitioner-learning/experiential-seminars> and <http://www.stern.nyu.edu/faculty/bio/sunder-narayanan>  
Mentor to students on Cleantech Projects at incubator **ACRE Urban Future Lab** at NYU Metrotech, Brooklyn.  
<http://www.urbanfuturelab.com/> <http://acre.nyc/>

**New York University, Stern School of Business, course Managing Change**, 2015-2014.  
Guest Speaker for NYU class with Professor Anat Lechner. On several occasions presented seminars and held class discussions with students on companies managing change in the Energy and Cleantech business: fossil fuels, new technology efficiencies and benefits vs costs, climate change, public health, and transition to renewable resources. Mentor to students on their projects and presentations on companies’ visions, strategies, change plan, and effective use of Internet of Things, Big Data, Artificial Intelligence, Robotics, and Cleantech across various sectors: energy, chemicals, manufacturing, computers and telecommunications, pharmaceuticals, food, education, and healthcare.  
<http://www.stern.nyu.edu/programs-admissions/full-time-mba/academics/specializations/leadership-and-change-management> and <http://www.stern.nyu.edu/faculty/bio/anat-lechner>

**New York University, School of Law, Frank Guarini Center, 2015-2013.**

Frequently attended panel discussions on “**Environment, Energy and Land Use**” and “**Law and Security**”.

<http://guarinicenter.org/>

**New York University, Wagner School of Public Service, 2015.**

Reynolds Program in Social Entrepreneurship. Attended various events and panel discussions.

<http://www.nyu.edu/reynolds/>

<http://wagner.nyu.edu/>

**New York University, Stern School of Business, Office of Student Engagement, 2015-2014.**

“Alumni Career Engagement (ACE)”. Meetings of alumni and students for mentoring on career development.

<http://www.stern.nyu.edu/portal-partners/current-students/undergraduate/student-engagement>

**The New School, Schwartz Center for Economic Policy Analysis (SCEPA), 2015-2013.**

“Climate Change in USA and Worldwide”. Frequently attended Speaker Events and participated in discussions.

<http://www.newschool.edu/nssr/centers-special-programs/?id=104453>

**New York University, Tandon Polytechnic School of Engineering, Office of Alumni Relations, 2015-2013.**

Alumni and Students NYU Events on Campus: Cyber Security, Research Expo, Astronauts, and Environmental Activism.

<http://engineering.nyu.edu/alumni>

**New York University, Stern School of Business, Urbanization Project, 2014-2013.**

“Urbanization Project”. Frequent participant in weekly discussion on urbanization energy-related issues.

<http://www.stern.nyu.edu/experience-stern/about/departments-centers-initiatives/centers-of-research/urbanization-project>

**New York University, Stern School of Business, Berkley Entrepreneurship Center for Innovation, 2014-2013.**

“200K Entrepreneurs Challenge”. Attended student competition of start-up companies.

<http://www.stern.nyu.edu/experience-stern/about/departments-centers-initiatives/centers-of-research/w-r-berkley-innovation-lab/events/200k-entrepreneurs-challenge-final-round>

**New York University, Stern School of Business, course Managing Change, December 12, 2014.**

“With WTI Oil Price below \$50 per barrel; Only 4 out of 18 US Shale Properties are now above Breakeven Cost, but 80% of US Shale Production is Non-Economic”, NYU Classes posting by GF Avgerinos

**New York University, Stern School of Business, course Managing Change, November 26-15, 2014.**

“High Oil Production from Saudis and USA 2009-2015: Who will blink first”, NYU Classes posting by GF Avgerinos.

“The Downside of the US Oil and Gas Boom (Fracking), NYU Classes posting by GF Avgerinos.

“Oil below \$75 Means some TX Shale (Fracking) is Unprofitable”, NYU Classes posting by GF Avgerinos.

“A More Realistic View of Shale Oil and Gas from Fracking”, NYU Classes posting by GF Avgerinos.

**New York University, Liberal Studies Program, course History of the Universe, November 10, 2014.**

Guest Speaker for NYU class with Professor Gerceida Jones.

“Fossil Fuels, Environment, Climate Change”, presentation by Guest Speaker Gabriel F. Avgerinos.

<http://www.liberalstudies.nyu.edu/object/GerceidaJones>

**New York University, Stern School of Business, course Managing Change, October 22, 2014.**

“Falling Crude Oil Prices and Impact on US Fracking shale costs”, NYU Classes posting by GF Avgerinos.

**New York University, Stern School of Business, course Managing Change, September 30 and 15, 2014.**

“Oil and Gas R&D and Conversion of US Terminals from LNG Imports to Exports”, NYU Classes posting by GF Avgerinos. Guest Speaker for “Energy and Environment: Managing Change in the Oil and Gas industry.”

**New York University, Tandon Polytechnic School of Engineering, August 25, 2014.**

“i2e Dialogue: Energy Panel”, Convocation event, GF Avgerinos one of three Panelists/Speakers to the freshman class.

**New York University, Stern School of Business, course on Managing Change, August 21, 2014.**

“Handbook on Managing Change for Energy and Environment”, Energy Business Mentor and Advisor GF Avgerinos.

**New York University, Tandon Polytechnic School of Engineering, Office of the Dean,**

**Wasserman Career Development, and NYU Tandon Poly Alumni Association, May 21, 2014.**

Wrote proposal for “New Ideas for NYU Undergraduate and Graduate students regarding Multidimensional and Experiential Courses for effective learning (in-class discussions and online e-courses) and Career Development.”

**MIT Chemical Engineering Alumni News**, Spring 2011.

GF Avgerinos, MIT ChE MS, Class 1975. <http://web.mit.edu/cheme/alumni/response-card.html#7180>

**Natural Gas Intelligence**, May 22, 2006.

“US, Canada to take 50% of world LNG supply by 2015”.

Media Mention of Gabriel F. Avgerinos (General Manager LNG and Natural Gas Consulting, Poten & Partners).

<http://www.naturalgasintel.com/articles/14695-north-america-atlantic-basin-driving-much-lng-growth>

**Platts LNG Daily**, May 18, 2006.

“US, Canada to take 50% of world LNG supply by 2015”.

Media Mention of Gabriel F. Avgerinos (General Manager LNG and Natural Gas Consulting, Poten & Partners).

<http://www.poten.com/platts-lng-daily-us-canada-to-take-50-of-world-lng-supply-by-2015>

**Platts Fifth Annual LNG Conference**, Houston TX, May 18, 2006.

GF Avgerinos (General Manager LNG and Natural Gas Consulting, Poten & Partners), Guest Speaker.

“LNG Global Supply” <http://www.siliconinvestor.com/readmsg.aspx?msgid=22467656>

**Highbeam Business**, Brief Article from Power, Finance, and Risk, May 23, 2005.

“Planned LNG import terminals in North America”, Media Mention of Gabriel F. Avgerinos (General Manager LNG and Natural Gas Consulting, Poten & Partners). <http://business.highbeam.com/435572/article-1G1-132873406/poten-partners>

**Daily Natural Gas Price Index**, May 16, 2005.

Media Mention of Gabriel F. Avgerinos (General Manager LNG and Natural Gas Consulting, Poten & Partners).

<http://www.naturalgasintel.com/articles/68676-poten-six-to-10-north-american-lng-projects-likely>

**Natural Gas Intelligence**, October 11, 2004.

“Sempra: LNG Plans for Baja, Louisiana on Track; Supply Deals Close”, Media Mention of Gabriel F. Avgerinos (General Manager LNG and Natural Gas Consulting, Poten & Partners).

<http://www.naturalgasintel.com/search?q=Indonesia+Eyes+July+1%2C+2004+LNG+Deal+for+Baja%2C+California>

**Oil and Gas Journal**, April 27, 2004.

CBI – “Industry expected to keep pace with LNG vessel demand”.

Media Mention of GF Avgerinos (General Manager LNG and Natural Gas Consulting, Poten & Partners).

<http://www.ogj.com/articles/2004/04/cbi-industry-expected-to-keep-pace-with-lng-vessel-demand.html>

**The James A. Baker III Institute for Public Policy, Rice University**, November 2001.

“Developments in Atlantic Basin LNG: Implications for Japan” pg 12/44, Reference to GF Avgerinos (General Manager LNG and Natural Gas Consulting, Poten & Partners). Report by Barbara Rhines Shook (EIG) and Amy Myers Jaffy (Baker Institute). <http://bakerinstitute.org/media/files/Research/1c48d794/developments-in-atlantic-basin-lng-implications-for-japan.pdf>

**PRNewswire on Zeus Development Conference**, July 11, 2001.

“Six Key Conclusions Drawn from North American LNG conference”, Zeus Development.

Media Mention of Gabriel F. Avgerinos (General Manager LNG and Natural Gas Consulting, Poten & Partners).

<http://www.prnewswire.com/news-releases/six-key-conclusions-drawn-from-north-american-lng-conference-71304062.html>

**LNG Express Conference**, Arlington VA, June 28, 2001.

Gabriel F. Avgerinos (General Manager LNG and Natural Gas Consulting, Poten & Partners), Guest Speaker “LNG Cool Fuel for a Hot Market” and Moderator of Panel on “New Sources of LNG for North America and the Caribbean”.

U.S. Dept of Energy, Shell Trading, Total-Fina-Elf, BP, PDVSA, El Paso, Williams, and Chevron were among organizations and companies discussing “LNG’s Role in North American and Caribbean Gas Supply”.

<http://www.prnewswire.com/news-releases/shell-trading-totalfinaelf-bp-pdvsa-el-paso-williams-us-department-of-energy-and-chevron-among-companies-to-discuss-lngs-role-in-north-american-caribbean-gas-supply-71776612.html>

**LNG Journal**, January 2001.

“Time Charter Parties in the LNG Trade”, pg 1 of 5, Reference to GF Avgerinos (General Manager LNG and Natural Gas Consulting, Poten & Partners). Report by Philip R. Weems, King and Spalding, Houston TX.

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<http://www.kslaw.com/library/pdf/weemstime.pdf>

**Oil and Gas Journal**, December 18, 2000.

“Events Drive up Oil-Tanker Rates; LNG Tankers Move into New Role”.

Article by Gabriel F. Avgerinos (General Manager LNG and Natural Gas Consulting, Poten & Partners), Roy L. Nersesian, Jeffrey T. Goetz, Frederick Adamchak (Poten & Partners).

<http://www.ogi.com/articles/print/volume-98/issue-51/transportation/events-drive-up-oil-tanker-rates-Ing-tankers-move-into-new-role.html>

**Fuel Oil Energy Buyers Guide Conference**, Moderator Lawrence Axelrod (Poten & Partners), September 25, 2000.

GF Avgerinos (General Manager LNG and Natural Gas Consulting, Poten & Partners), Guest Speaker, Miami FL.

“Natural Gas and LNG competing fuels for US electric power generation”.

[http://www.google.com/url?sa=t&drct=j&dq=and&src=s&source=web&cd=43&ved=0CCcQFjACOC&url=http%3A%2F%2Fdatasets.opentestset.com%2Fdatasets%2FEnron\\_files%2Ffull%2Fshankman-j%2F2000conferenceattendelist.doc&ei=sfmBVInRFYedNrjggJAFandusg=AFQjCNEOvGKsicI24EaXfY67WBeUfdHsg&dbvm=bv.80642063,d.eXY&cad=rja](http://www.google.com/url?sa=t&drct=j&dq=and&src=s&source=web&cd=43&ved=0CCcQFjACOC&url=http%3A%2F%2Fdatasets.opentestset.com%2Fdatasets%2FEnron_files%2Ffull%2Fshankman-j%2F2000conferenceattendelist.doc&ei=sfmBVInRFYedNrjggJAFandusg=AFQjCNEOvGKsicI24EaXfY67WBeUfdHsg&dbvm=bv.80642063,d.eXY&cad=rja)

(Note: Attendees List only)

**Oil and Gas Journal**, December 6, 1999.

“Traditional Oil, Gas Shipping Patterns Face Changes for the 21st Century”.

Article by Gabriel F. Avgerinos (General Manager LNG and Natural Gas Consulting, Poten & Partners), Frederick R. Adamchak, Colin Shelley, Roy L. Nersesian, Jeffrey T. Goetz (Poten & Partners).

<http://www.ogi.com/articles/print/volume-97/issue-49/in-this-issue/transportation/traditional-oil-gas-shipping-patterns-face-changes-for-the-21st-century.html>

**Oil and Gas Journal**, March 25, 1996.

“Russia's Petroleum Progress in Russian Refining Shows Signs of Revival, Needs Investment”.

Article by Valeri S. Plotnikov and GF Avgerinos (Manager LPG and Gas Projects, Poten & Partners, New York), Nikita L. Dvoretz (Russian Association of Oil and Gas Producers, Moscow), Vladimir M. Tyukov (Rosneft, Moscow).

<http://www.ogi.com/articles/print/volume-94/issue-13/in-this-issue/general-interest/russia39s-petroleum-progress-russian-refining-shows-signs-of-revival-needs-investment.html>

**Oil and Gas Journal**, March 13, 1995.

“Former Soviet Union's Natural Gas Liquids Business Needs Investment”

Article by Valeri S. Plotnikov, Michael Berman, Gabriel F. Avgerinos (Manager LPG and Gas Projects, Poten & Partners).

<http://www.ogi.com/articles/print/volume-93/issue-11/in-this-issue/general-interest/fsu39s-natural-gas-liquids-business-needs-investment.html>