



Eric A. Stern

Director of Sediment Management and Development

Summary

Eric is a Founding Partner/Director of Sediment Management and Technology Development of Tipping Point Resources Group, LLC (TPRG). TPRG is a service provider of sediment treatment (ex/in-situ) remediation and restoration technologies with beneficial use alternatives. Prior to launch of TPRG in 2016, Eric was a Research Leader in Sediment Management for Battelle Memorial Institute (Energy and Environment Business Global Business Unit/Environmental Solutions Services). Eric led the development and implementation of their Integrated Sediment Management (ISM) Practice and growth strategy with a focus on sustainable innovative cross-program applications. Eric was the Co-Chair of the Battelle 7th International Conference on the Remediation and Management of Contaminated Sediments in February 2013/Dallas, Texas USA. Eric also held the position as Program Director for Environmental Resource Management (ERM) in their Sediment and Watershed integrated Management (SWiM) Practice.

Prior to private sector positions, Eric spent 24 years in US Government both with the US Army Corps of Engineers (USACE) and the US Environmental Protection Agency (EPA). He was an Environmental Scientist/Oceanographer with EPA Region 2 New York, Division of Environmental Protection and Planning – Dredging, Sediments and Ocean’s Team. His specialization is in contaminated sediments and dredged material assessment/management, integrated sediment decontamination innovative technology (treatment train) development, beneficial use of sediments, and Regional (Urban) Sediment Management as it applies to sustainable practices in complex watershed systems and applications of regional sediment processing facilities.

From 1986-1990, Eric was an Oceanographer with the USACE New York District Operations Division. He was the project manager for ocean monitoring, environmental assessment and management of the New York /New Jersey Dredged Material Ocean Disposal Site located in the coastal New York Bight (Atlantic Ocean). His oversight and fieldwork activities included geophysical, biological, and chemical survey work and assessment, as well as design and implementation of technical studies related to the designation of a new ocean dredged material disposal site in the New York Bight (Atlantic Ocean). He was the USACE project manager for the Federal Interagency Dioxin Dredged Material Steering Committee, which was the first working group formed to evaluate and develop dioxin contaminated sediment guidelines for federal navigation projects — specifically the Kill van Kull/Newark Bay Federal Channel Deepening



Project. While at the USACE, he was involved in dredged material evaluations and all aspects of contaminated sediment environmental management for the Port of New York/New Jersey. His expertise in sediment management was valued by other EPA Regions, USACE Districts, federal and state agencies (including laboratories), Port Authorities, and the commercial/private sector.

From 1990 to 2010, Eric worked for EPA Region 2. From 1990-1993 he held the position of Oceanographer managing both the Delaware Estuary Program and the Long Island Sound Study, both of regional environmental significance in the EPA National Estuary Program. In both of these programs, he focused on sediment cross-media toxic contamination. From 1993, he served as the Regional Contaminated Sediment Program Manager for EPA, where he directed, under the authority of the federal Water Resources Development Act (WRDA), the *New York/New Jersey Harbor Sediment Decontamination Program*. The program was charged to demonstrate the environmental and economic feasibility of decontaminating dredged materials/contaminated sediments from the Port of New York/New Jersey with beneficial use end products on a commercial-scale level of at least 285,000 cubic meters/year. The WRDA Program involved a partnership with the New Jersey Department of Transportation Office of Maritime Resources (DOT), and the US Department of Energy - Brookhaven National Laboratory. Together, EPA and the DOT sediment decontamination programs, funded \$42 million regionally towards treatment technology development with beneficial use applications.

The Program has seeded technical transfer to other ports/regions with contaminated sediment challenges such as Puget Sound, Port of Seattle - Washington, Port of Baltimore, Port of Bridgeport – Connecticut, Portland Harbor - Oregon, Hong Kong Harbor, Shanghai, Latvia, Norway, Cracow (Poland), and the Port of Venice (Italy). Eric is an active member of the European Union Sediment Network Research (SedNet) and was a participant/contributor to the SedNet Treatment/Remediation Workgroup. He participates in the SedNet Science Policy Interface (SPI) Workgroup. He is a member of the Central Dredging Association Beneficial Use Workgroup and is a contributor to the Position Paper *Beneficial Use of Contaminated Sediments* expected to be published in 2018. He is a keynote and invited speaker on a global venue in the subject area of sediment treatment/sustainability and Integrated Sediment Management.

In addition, Eric's experience has been connected closely with EPA Superfund and other EPA Regions nationally as well as USACE Districts on contaminated sediment projects. Projects of significance include the Passaic River, New Jersey, and Gowanus Canal, New York and the EPA Great Lakes National Program Office (GLNPO).

Eric has an appointment at Montclair State University (MSU), Montclair, New Jersey as an Adjunct Professor in the School of Science and Mathematics and works closely within the Graduate Department of Earth and Environmental Studies, and the Doctoral Program in Environmental Management. He was Co-Chair of the Passaic River Institute Steering Committee and is presently a collaborator with the MSU Clean Energy and Sustainability Analytics Center. His research and applied interests includes integrated contaminated sediment management, urban and Regional Sediment Management, beneficial use applications of dredged material and post-treated contaminated sediments, sediment sustainability, development of integrated system approaches to managing contaminated sediments, innovative decontamination treatment technologies (ex and in-situ), multi-media waste to energy technologies with beneficial use applications and implementation of commercial scale regional sediment processing facilities.



Education

- Graduate Department of Oceanography, Old Dominion University, Norfolk, Virginia (PhD Program)
- M.S., Earth Sciences, Adelphi University, Garden City, New York
- B.S, Biology, Wagner College, Staten Island, New York
- The McBurney School, Manhattan, New York

Honors & Awards

- Recipient of the 2018 Blue Peter Award given publicly for Leadership recognition in the field of Environmental Remediation (June 11, 2018 – Princeton, New Jersey)

PROFESSIONAL HISTORY

US Government, Consultancies & Academia

January 2017 – present

Director of Sediment Management and Development
Tipping Point Resources Group, LLC (TPRG)

TPRG was formed to assist governments, Ports, marinas, industrial and commercial facilities, Municipal Gas Plants, utilities and clients in need of dredged material and contaminated sediment treatment and disposal alternatives. For navigation and maintenance projects this would be sediments that are not suitable for ocean, estuary / aquatic placement. TPRG offers innovative, implementable and cost-effective dredged material and contaminated sediment processing solutions for the sustainable management of sediments. TPRG's strategy blends life-cycle sediment treatment with upland dredged material placement for beneficial use brownfield remediation and restoration. This positions our clients to catalyze economic development and urban re-vitalization; moving beyond the tipping point to balance current disposal challenges and leverage future opportunities. TPRG is comprised of engineering, scientific and regulatory practitioners from government, industry, consulting, and academia that came together at the *tipping point* <https://tprgllc.com>

- **Siting, permitting, design/build of a Regional Dredged Material Manufacturing Facility (RDMMF)** applying innovative sediment/soil innovative treatment technologies with brownfield beneficial use applications in the Port of New York/New Jersey, Connecticut/New England corridors with global technical transfer. <http://www.dredgemag.com/September-October-2017/Tipping-Point-LLC-Will-Facilitate-Beneficial-Use-in-Connecticut-Area/>
 - <https://www.dredgemag.com/2018/05/14/tipping-point-receives-permit-to-operate-in-connecticut/>



- Application of Pneumatic Flow Tube Mixing (PFTM) barge mounted system for the stabilization of soft sediments for structural beneficial use alternatives. Partnering with JAFEC USA and AOMI Construction Ltd, the PFTM system is designed for fixed facility use and/or barge transport directly to a dredging project site since it has the ability to pump at large distances for flowable fill purposes.
- Recipient of the 2018 Blue Peter Award given publicly for Leadership recognition in the field of Environmental Remediation (June 11, 2018 – Princeton, New Jersey)
- Member of the Central European Dredging Association (CEDA) Workgroup on the Beneficial Use of Sediments (Position Paper Contributor)
- Task Assignment Leader / Client- Industry Sediment Management Workgroup): *Sustainability Regulatory Integration and Reform for Superfund Sediment Remediation Projects*
- Adjunct Professor / Montclair State University / Fall 2018 – Graduate Water Resources Management
 - Collaborator: Clean Energy and Sustainability Analytics Center
- Panel Member: Incorporating Sustainability Principles in Superfund Sediment Remediation Projects / 10th International Conference of the Remediation and Management of Contaminated Sediments – February 11-14, 2019, New Orleans, Louisiana
 - Poster Presentation: Mobile Pneumatic Flow Tube Mixing for Stabilization and Beneficial Use of Contaminated Sediments
- Potentially Responsible Party (PRP) Contaminated Sediment Summit: October 2, 2018, Hoboken, New Jersey. Urban Sediment Management (*Invited Speaker*)
- **Conowingo Dam, Maryland: Regional Sediment Processing and Beneficial Use Bid Pursuit (Northgate/Dutra Dredging/RAMBOLL (OBG) Team**

May 2014 - present

Principal, Integrated Sediment Management, *Environmental Adaptive Strategies, LLC*

Environmental Adaptive Strategies (EAS), LLC, is a strategic consultancy which focuses on strategic realignment of services based on value added benefits, timely execution and understanding of the regulatory landscape in the sediment and waste management disciplines.

Environmental solution formation is grounded in scientific and technical rigor. However, the philosophical construct needed to develop solutions for today's complex multi-media environmental challenges integrates the arts of creativity, technology innovation, sustainability, resilience, societal drivers, political realities, economics, politics and negotiation to achieve results that realistically balance stakeholder goals. With a sediment and dredged material management career spanning over 30 years with the US Government, academia, technical consulting, and collaboration with international partners and colleagues, Environmental Adaptive Strategies, LLC advocates a paradigm shift that enables the development and implementation of holistic, adaptive management solutions and



implementation <https://www.envadaptstrat.com>

Specializations/Initiatives:

- Urban / Watershed Regional Sediment Management
- Integrated Contaminated Sediment Remediation
- Dredged Material and Contaminated Sediment Management Environmental Assessments
- Adaptive Waste Management Strategies
- Bench / Pilot / Full-scale Innovative Sediment Treatment Demonstrations/Applications
- Beneficial Use of Sediments (including contaminated) – sustainability drivers
- Materials Handling
- **Regional Sediment Processing Facility (s) Development**
 - Stakeholder and Public Outreach Consultation
 - Sediment and Waste Management Training
 - Sediment Market Research
 - Sediment Program(s) Peer Reviews (corporate and industry focus)
 - Development, technical marketing and application of a continuous autoclave/hydrolyser for organic Municipal Solid Waste that produces a high BTU Processed Engineered Fuel (PEF) for Italy and India markets.
 - Branding of Cross Program Optimization and Integration for Urban Sediment Management (USM) that utilizes existing Environmental Programs to manage complimentary (not competing) visions, goals and objectives to drive sustainable and cost-effective outcomes for sediment management.

May 2011 – April 2014

Research Practice Leader, Sediment Management, Battelle Memorial Institute

Energy, Environment & Material Sciences Global Business

Battelle is the world's largest nonprofit research and development organization. As a 501(c)(3) charitable trust, Battelle was founded on industrialist Gordon Battelle's vision that business and scientific interests can go hand-in-hand as forces for positive change. Battelle conducts research and development, designs and manufactures products, and delivers critical services for government and commercial customers. Headquartered in Columbus, Ohio since its founding in 1929, Battelle serves the national security, health and life sciences, and energy and environmental industries.

- Led development and implementation of their Global Integrated Sediment Management (ISM) multi-disciplinary Sediment Management Practice and growth strategy with a focus on sustainable innovative cross-program applications in Urban and Regional Sediment Management - Ports/Waterways with multiple stressors and stakeholders.
- Conference Co-chair: 7th Battelle International Conference on the Remediation of Contaminated Sediments. February 4-7, 2013. Dallas, Texas USA.



- Oral Platform Presentation: *A Conceptual Model for Advancing Urban Sediment Management: Allocating Limited Finances to Deliver a Sustainable Outcome*. European Union 8th International SedNet Conference. November 6-9, 2014. Lisbon, Portugal.
- Technical Steering Committee: 4th International Symposium on Sediment Management (I2SM 2014). September 17-19, 2014. Ferrara, Italy

➤ **Program Manager: Regional Materials Treatment Processing Facility (RMTPF) Concept for the US Gulf States Region.** (Harbor Resource Management Corporation, Inc).

- Reconnaissance for development of a regional sediment/soil/drilling muds processing facility (s) with post-treatment beneficial use applications.
- Initiated with the Project Team a Louisiana Intergovernmental Planning Facilitation Task Force to assist in the identification and scope (technical and regulatory) of the feasibility for such a facility.
- This project was developed with a major oil/gas client for a pilot scale sodium and petroleum/drilling muds treatment demonstration partnering with Clean Harbors, Inc. utilizing Harbor Resources Management Corporation TerraCure™ proprietary process for legacy site remediation in Louisiana, USA.

Technical Program Manager: Plan Formulation and Remediation of Contaminated Sediments with Cultural Resources in Bergen Harbor, Norway. (Bergen Kommune/Municipality).

- Third party evaluation of a national remediation program of high priority in the Bergen Harbor/fjord - Phase II Sediment Remediation. (COWI Consultants).
 - [Bergen Harbor, Norway Peer Review Evaluation](#)

Program Manager: Technical and facilitated development for the 2012 US Environmental Protection Agency Great Lakes National Program Office Annual Great Lakes Area of Concern (AOC) National Conference.

Program Manager: White Paper/Framework: National US Policy Reform to Integrate Management of Contaminated Sediments (BASF Corporation).

October 2010 – April 2011

Program Director, Sediment Management, Environmental Resource Management (ERM)
Ewing, New Jersey

Sediment Watershed *Integrated* Management Practice (SWIM) / Contaminated Site Management

- Assisted start-up initiative in technical and business development in Integrated Sediment Management focusing on private sector global key clients with complex watershed



sediment challenges with Natural Resource Damage claims.

- Platforms included assessment, sediment treatment and regional processing of contaminated sediments, beneficial use, remediation and restoration of blighted waterfronts, and dredged material management.
- Key regions included New York/New Jersey Harbor, US Great Lakes, US Pacific Northwest, Italy, and Norway.
- Member of Interstate Technology Regulatory Council (ITRC) Remediation Workgroup.
- Presenter/Platform Chair at Battelle 6th International Conference on the Remediation of Contaminated Sediments (February 2011).
- Invited expert testimony – NYC Mayor’s Council Waterfront Committee / Dredged Material Management and Developing a Sustainable Policy (March 2011).
- Participant (poster session) at EU SedNet – (April 2011).

June 1993 – September 2010 (24 years of Federal Service)

Environmental Scientist, Regional Contaminated Sediment Program Manager

U.S. Environmental Protection Agency (Region 2) New York

Division of Environmental Planning and Protection, Dredging, Sediments and Oceans Team

The Dredging, Sediments and Oceans Team are responsible for implementation of the EPA Region 2 (NY/NJ, Puerto Rico and Virgin Islands) Dredged Materials Management, Ocean Monitoring / Survey, Contaminated Sediment and Sediment Decontamination Innovative Technology Development Programs.

- Directed and managed the development, implementation, inter-agency coordination, outreach, basic and applied research, assessment and evaluation, and technical transfer of contaminated sediment, innovative decontamination technology and beneficial use management programs on a regional cross-program, national and international scale level.
- Directed and managed the Water Resources Development Act (WRDA) and EPA funded \$22 million Congressional NY-NJ Harbor Sediment Innovative Decontamination Technology Demonstration Program. The program was charged to demonstrate the feasibility of decontaminating dredged materials / contaminated sediments from the Port of NY and NJ with the creation / *environmental manufacturing* of high value beneficial use end products on a commercial-scale level of at least 500,000 cubic yards per year.
- Managed the US Department of Energy - Brookhaven National Laboratory (BNL) in technical program administration. Working in partnership with the NJ Department of Transportation Office of Maritime Resources (OMR) Sediment Decontamination Program, approximately \$42 million was obligated for regional sediment decontamination and beneficial use applications for the Port of NY/NJ. This program relied heavily on promoting public-private partnerships between federal, state, and local governments, technology developers, corporate entities, venture capitalists, port authorities, and



academic/research institutions.

- Facilitated the development of public/private partnerships to engage the private sector in developing long-term self-sustaining enterprises in innovative technologies and sustainable development.
- Guided project development, operations, and construction related to the implementation of innovative treatment technologies.
- Technical and managerial oversight of bench, pilot, full and commercial - scale process testing and evaluations.
- Focused on treatment train / systems approach development, selection of promising technologies for further evaluations, process economics, facility siting, permitting, environmental dredging, materials handling, beneficial use (basic and applied research) applications, transport, and public outreach.
- Assisted in the development, construction, and evaluation (2005-2008) of a regional full-scale thermal and non-thermal sediment decontamination technology demonstration project that utilized navigational dredged material and more highly contaminated Superfund sediments with beneficial use applications.
- Directed the sediment treatment program to demonstrate processing of Superfund sediment as a feedstock / cross-program opportunity. This resulted in processing of Passaic River, NJ sediment through sediment washing facility and further demonstration of dewatered Passaic River sediment through a thermo-chemical rotary kiln process.
- Resident expert in treatment train systems approach to integrated contaminated sediment management. Dredging and materials handling, technology evaluation, residual waste management, monitoring, and beneficial use applications and evaluations. Includes utilization of multi-waste applications - waste to energy.
- EPA Region 2 Lead for the Regional Sediment Management Plan for NY/NJ Harbor.

EPA Region 2 Superfund - Technical Advisor Cross Program Support

- Lower Passaic River, New Jersey Restoration Study – Sediment Treatability Demonstration Program Lead
- EPA-USACE-NJDOT Passaic River Project Delivery Team (PDT)
- EPA-NJDOT Environmental dredging and sediment decontamination treatability pilot studies with beneficial use applications
- Gowanus Canal, New York (Urban Rivers Restoration Initiative) Program Manager – USACE PDT
 - Project Manager for Superfund - Gowanus Canal, New York Phase 1 & 2 Upland and Aquatic Assessment
- Newtown Creek, New York Coordination
- Superfund and Dredged Material Management Coordination
- Pompton Lakes, New Jersey (RCRA Technical Lead)
 - Contaminated sediment (Hg) assessment and removal. Sediment treatability studies.



EPA Headquarters - Environmental Technologies Opportunities Portal Office of Superfund Remediation and Technology Innovation

- Environmental Technology Council

National Action Team Leader - Remediation of Contaminated Sediments Workgroup: *Technologies Promoting the Sustainable Use of Contaminated Sediments and the Beneficial Use of Waste-Related Materials Workgroup.*

NATIONAL ACTIVITIES

- EPA Great Lakes National Program Office (GLNPO) – Chicago, Illinois
- Office of Research and Development (ORD)
- National Risk Management Research Laboratory – Cincinnati, Ohio *Superfund Innovative Technology Evaluation Program (SITE) Evaluation Program*
- National Health and Environmental Effects Research Laboratory Atlantic Ecology Division (AED), Narragansett, Rhode Island
- USEPA/Battelle Environmental Technology Verification Program Material Management and Remediation Center
 - Stakeholder Committee Member: (1) Remediation and (2) Material Management

GLOBAL ACTIVITIES

- European Sediment Research Network (SedNet) - www.sednet.org
- Member – Central European Dredging Association (CEDA) Workgroup on Beneficial Use (2017-Present)
- Member - Workgroup Package 4: Dredged Material Treatment (SedNet)
- Venice Port Authority, Italy: Sediment decontamination technology transfer, program management, and pilot-scale implementation of a sediment washing process for the Port of Venice, Italy (2004-2005). Data from Venice utilized for 2006-2008 full-scale Port of NY/NJ demonstration
- Invited speaker on contaminated sediment management / decontamination technologies with beneficial use applications - Norway, Poland, Italy, and Latvia

Selected EPA Project Management Studies:

- Sediment Treatment and Manufactured Soil / Concrete Walkway Interpretive Center Construction - Montclair State University, New Jersey
- Analysis of Sediment Reinforced Composites for Sustainable Source Development and Determination of the Resistance to Environmental Degradation. Brookhaven National Laboratory and the State University of New York at Stony Brook Materials Science and Engineering



- 3-Dimensional Visualization of NY/NJ Harbor Sediments- Brookhaven National Laboratory
- Public Outreach Strategy for Sediment Decontamination Technologies for NY/NJ Harbor Estuary (Rutgers University and Brookhaven National Laboratory)
- Multi-Agency Cooperative Effort to Assess Contaminated Sediment Toxicity in the Passaic, Hackensack Rivers and Newark Bay Complex. Project emphasis on dioxin contaminated sediments. Participating federal agencies; National Oceanic and Atmospheric Administration (NOAA), U.S. Fish and Wildlife Service (US F&WS) and EPA Region 2
- Phase I Toxicity Identification Evaluation (TIE) for NY/NJ Harbor Estuary Sediments - EPA AED
- Phase I TIE Methods for Removal of Organic Contaminant Toxicity from Whole Sediments -Midwest Research Science Center, US Geological Survey Contaminant Research Laboratory, Columbia, Missouri
- The Use of Pattern Recognition Techniques to Identify Contamination Source Types: Application to Selected Organic Contaminants in Sediments from the Newark Bay Complex - EPA AED
- Toxic Assessment on NY/NJ Harbor Estuary Ambient Waters on Early-Life Embryological Stages (Science Applications International Corporation (SAIC))
- Water Column Toxicity Identification Evaluations (Phase I and II TIEs) (SAIC)

May 1992 - June 1993

Oceanographer, EPA National Estuary Program - Estuaries Section

The Estuaries Section is responsible for the implementation of the National Estuary and the Near Coastal Waters Programs.

- Regional Program Manager for the Long Island Sound Study (LISS)

March 1991 - April 1992

- Regional Program Manager for the Delaware Estuary Program (DELEP)

January 1990 - February 1991

Oceanographer, EPA Marine & Wetlands Protection Branch

- Served as Branch expert on contaminated estuarine and marine sediments and toxics with emphasis on regional contaminated inputs.
- Project Manager and technical liaison on all toxics-related grants and contracts within the section's estuary programs dealing with contaminated sediment characterization, sediment and water column toxicity / bioavailability studies and ambient environmental monitoring.



May 1986 - January 1990

Oceanographer, US Army Corps of Engineers, New York District, Operations Division

Dredged Material Management Section, New York, New York

The Dredged Material Management Section is responsible for the development and performance of testing, monitoring, and technical studies related to the environmental effects of dredging activities in the NY/NJ Harbor Estuary and the coastal Atlantic Ocean.

- Program Manager for developing and implementing the New York District's Ocean Dredged Material Disposal Site (Historic Area Remediation Site (HARS) - formerly the Mud Dump Site)) Management and Long-Term Monitoring Program.
- Developed and instituted a technical, administrative and dredged material disposal tracking and monitoring program for the Mud Dump Site. Coordinated all technical activities related to this monitoring program as well as being responsible for the long-term planning, contracts, and technical transfer between other USACE Districts, government agencies, research laboratories and the public.
- Managed entire contractual process from statement of work development, budget planning to negotiations. Technical advisor to the USACE-NYD Architect and Engineering Pre-Selection Committee on dredged material assessment monitoring projects.
- Initiated survey contract to bring REMOTS (Remote Ecological Monitoring of the Seafloor) sediment profiling imagery technology to the USACE. Coordinated and participated in the Federal Interagency Dioxin Steering Committee. This multi-agency committee addressed the testing and ocean disposal of NY-NJ Harbor dredged material (Kill Van Kull -Newark Bay Federal Deepening Project) of dioxin contaminated sediment.
- Project Officer for technical studies to address the long-term bioaccumulation potential of dioxin in contaminated estuarine and marine sediments with EPA Office of Research and Development-Narragansett. Provided technical support and expertise on dioxin to other USACE Districts and EPA Regions.
- Coordinated and participated in all phases of the cooperative EPA Region 2 / USACE-NYD New Alternative and Mud Dump Site Replacement Site Designation Study for Dredged Material. Implemented statements of work for technical studies related to the physical, geological and biological oceanographic data collection efforts.
- USACE-NYD Chief Scientist for the Mud Dump Site Replacement oceanographic data collection effort; EPA *Ocean Survey Vessel Peter W. Anderson*, February 27-March 25, 1989.
- Supervised chemical, biological and sediment related field operations for dredged material testing and evaluation from the NY-NJ Harbor federal navigation channels and the Mud Dump Site. Developed complex sampling programs for dredged material and contaminated sediment testing.
- Reviewed plans and specifications, environmental impact statements, permit applications, statements of findings and other technical reports for federal and private dredging projects.



University Teaching and Research Experience

May 2006 -present

Adjunct Research Professor, Montclair State University - Montclair, New Jersey USA
College of Science and Mathematics, Department of Earth and Environmental Studies
Graduate Program (MS/PhD) in Environmental Management
Co-Chair Technical Steering Committee – Passaic River Institute (2014-2016)
Collaborator: Clean Energy and Sustainability Analytics Center (2018 – present)

Courses Taught:

ENVR	895	Research Project in Environmental Management I and II
ENVR	610	Seminar in Environmental Management
GEOS	513	Waste Management
EAES	533	Water Resources Management
PHMS	210	Marine Sciences
GEOS	162	General Oceanography

Scholarship of Pedagogy:

2016: Committee member supervising Richard James
Doctoral Candidate in Environmental Management
Dissertation research topic: *Applicability of Agricultural Plants in the Phytoremediation of Metal Contaminated Soils in Urban Environments*

2016: Committee member supervising Alejandra Bozzolasco (Graduated December 2016).
Doctoral Candidate in Environmental Management
Dissertation research topic: *Using a Mixed-Methods Approach to Understand Urban Children's Nature Conceptions, Ecological Worldviews and Environmental Perceptions and Preferences Before and After Attending an Environmental Education Program*

2015: Committee member supervised Sushant Singh (Graduated May, 2015).
Doctoral Candidate in Environmental Management
Dissertation research topic: *Assessing and Mapping Vulnerability and Risk Perceptions to Groundwater Arsenic Contamination: Towards Developing Sustainable Arsenic Mitigation Models*

2015: Committee member supervised Vicky O. Sekkas (Graduated May, 2015).
Master's student in Environmental Studies
Thesis research topic: *Bedform Morphodynamics and Environmental Implications in the New York Bight Apex*

2014: Committee member supervised Amy Ferdinand (Graduated May, 2014).
Doctoral Candidate in Environmental Management
Dissertation research topic: *A Geospatial Approach to Assess Sustainable Urban Brownfields Redevelopment*



2014: Committee member supervising Schenine Mitchell.

Doctoral Candidate in Environmental Management

Dissertation research topic: *An Analysis of Inter-Agency Collaborations to Address Environmental Challenges in Brownfield Communities*

2014: Committee member supervising Kevin Olsen (Graduated May, 2014).

Doctoral Candidate in Environmental Management

Dissertation research topic: *Organic Geochemical Analysis of Sediments from Urban Waterways*

2009: Committee member supervised Michael Wilson (Graduated May, 2009).

Master's student in Environmental Management

Thesis research topic: *Monitoring Protocol for 2 New Jersey Ponds with Littoral Zone Vegetative Restoration.*

2009: Committee member supervised Candice Joy Falk (Graduated May, 2009).

Master's student in Geosciences

Thesis research topic: *Paleo-environment and Paleo-climate of Coastal East Antarctica during the Middle Miocene: Particle Size Results of the ANDRILL Southern McMurdo Sound Project.*

2008: Committee member supervised Naushad Kollikkathara (Graduated December 2008).

Doctoral Candidate in Environmental Management

Dissertation topic: *Integrated Waste Management System for New Jersey Municipalities*

2008: Committee member supervised Deborah Katchen (Graduated May, 2008).

Master's student in Geosciences

Thesis research topic: *The Analysis of the Natural Attenuation of Chlorinated Solvents in Groundwater at the Former Westinghouse Site in Bloomfield, New Jersey.*

2008: Committee member supervised Walter Jasianek (Graduated May, 2008).

Master's student in Environmental Management

Thesis research topic: *Study of Sediment Contaminant Distribution and Accumulation in the Passaic River, New Jersey, Using GIS Spatial Analysis and Visualization.*

2007: Committee member supervised Victor Onwueme (Graduated May, 2007).

Doctoral Candidate in Environmental Management

Dissertation research topic: *Characterization and Assessment of Contaminated Sediments in Lower Passaic River, New Jersey.*

2005: Committee member supervising Maria Clark (Graduated May, 2005).

Master's student in Environmental Management

Thesis research topic: *Environmental Restoration: The Catalyst of a City's Successful Revitalization - Camden, New Jersey.*

Applied Research Interests

- Regional/Urban Sediment Management (Global)
- Integrated sustainable environmental management
- Multi-media beneficial use applications



- Innovative sediment decontamination technology development
- Waste to energy applications / Municipal solid waste technology implementation

January 1984 - May 1986

Teaching Assistant: Department of Oceanography, Old Dominion University (ODU) Norfolk, VA

May 1985 - December 1985

Research Assistant: Applied Marine Research Laboratory, ODU, Chesapeake Bay Monitoring Program.

August 1983 - June 1984

Research Assistant: Department of Oceanography, ODU, Barrier Island Field Program and Research Station - Eastern shore of Virginia.

January 1983 - August 1983

Palynological Research Assistant: The Lamont-Doherty Geological Observatory of Columbia University (LDGO), Sterling Forest Laboratory, Tuxedo, NY
Quaternary paleo-climatic reconstruction. Processing and analysis of deep-sea core sections and development of chemical method protocols for processing pollen and spores from different sedimentary environments.

December 1982 - April 1983

Research Assistant: LDGO, Palisades, NY
Marine micropaleontological research using diatom microfossils as paleo-climatic and environmental indicators. Processing and compiling marine diatom data for constructing late Quaternary stratigraphy of the Equatorial Pacific Ocean based on diatom and morphological valve size changes.

PUBLICATIONS

Kruger, M.A., **Stern, E.A.**, Mastalerz, M., Permanyer, A. and K. K. Olsen (2019). Highly Contaminated Sediments from the Gowanus Canal Superfund Site: An Environmental Forensic Approach (in preparation).

Singh, S.K and **E.A. Stern** (2017). Global Arsenic Contamination: Living with the Nectar Poison – A Commentary. *Environment: Science and Policy for Sustainable Development*. Vol. 59, Issue 2, March/April 2017

Beckstrom, B.D., Leavitt, D.R., Mensinger, M., Hendricks, A., and **Stern, E. A.** (2014). Thermal Treatment for Reclamation of and Beneficial Use of Sediments. (Proceedings) 33rd International Conference on Thermal Treatment Technologies & Hazardous Waste Combustors – October 13-15, 2014. Baltimore, Maryland.



- Isard, P. and **E.A. Stern**. (2014). Hydrolyser Application and Development of a Pellet Engineered Fuel for Municipal Solid Waste Management in Italy. Proceedings: 5th International Symposium on Energy from Biomass and Waste – Venice 2014. November 17-20, 2014. Venice, Italy.
- Stern, E. A.** and E. Peck. (2012). Integrated Approaches to Global Sustainable Sediment Management - The Paradox of Having It All. International Conference on the 4th Nordic Joint Meeting on the Remediation of Contaminated Sites. Oslo, NORWAY. September 19-20, 2012. (short paper).
- Kollikkathara, N., Feng, H., and **Stern, E. A.** (2009). A Purview of Waste Management Evolution: Special Emphasis on the USA. *Waste Management* 29 (2009) 974-985.
- Stern, E.A.** (2007). Thermal Treatment and Washing Extraction. In: *Sustainable Management of Sediment Resources: Sediment and Dredged Material Treatment – Volume 2*. G. Bortone and L. Palumbo (eds.) Chapter 4: Description of the Available Technologies for Treatment and Disposal of Dredged Materials. Published by EU SedNet. Elsevier Press.
- Stern, E.A.**, Douglas, W.S., Jones, K.W., and H. Feng. (2006). A Proposal for Innovative Sediment Decontamination Technologies Using a Cross Program – Cross Media Business Model. In: *Proceedings of WEDA XXVI & TAMU 38 / Dredging: Creating a Strong Economy*. June 24-27, 2006. San Diego, California.
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INVITED INTERNATIONAL PRESENTATIONS

- Stern, E.A.** 5th International Symposium on Sediment Management (I2SM). Recognizing and Moving Beyond Myopic Sediment Management in the 21st Century. July 10-13, 2016 Montreal, **Canada** (*Keynote Address*)
- Stern, E.A.** 4th International Symposium on Sediment Management (I2SM). Sediment Management and Challenges in the United States – A Retrospective Approach to Moving Forward. RemTech Expo. September 17-19, 2014. Ferrara, **ITALY** (*Opening Plenary Session*).
- Stern, E.A.** NORDROCS 2012. Integrated Approaches to Global Sustainable Sediment Management - The Paradox of Having It All. International Conference on the 4th Nordic Joint Meeting on the Remediation of Contaminated Sites. September 19-20. Oslo, **NORWAY** (*Keynote Speaker*).
- Stern, E.A.** Contaminated Sediments: Case Studies and Management. NORDROCS 2012 International Conference on the 4th Nordic Joint Meeting on the Remediation of Contaminated Sites. September 19-20, 2012. Oslo, **NORWAY**. (*Moderator*).
- Stern, E.A.** Bergen Harbor, Norway Sediment Restoration. Invited presentation by the Municipality of Bergen. May 7-11, 2012. Bergen, **NORWAY**.
- Stern, E.A.** Innovative Approaches to the Management and Remediation of Contaminated Sediments and their Application to Sustainable Systems. Presented at Ecomondo 2009: Scientific/Technical Committee Platform / Contaminated Sediments: State of the Art, Strategies for their Management and Remediation and Success Studies. October 25 – 31, 2009. Rimini, **ITALY**. (*Keynote Speaker*).
- Stern, E.A.** Perspectives and Future Directions on Integrated Contaminated Sediment Management. Presented at the Workshop for Remediation of Contaminated Sediments. Sponsored by Biologge. September 4-5, 2007. Sandefjord, **NORWAY**.
- Stern, E.A.** Innovative Contaminated Sediment Decontamination Technologies and their Approach to Environmental Sustainability. International Conference on the Remediation of Polluted Sites – BOSICON 2006. Sponsored by the University of Rome – Faculty of Engineering, Italian Ministry of the Environment. February 14-15, 2006. Rome, **ITALY**.
- Stern, E.A.** Contaminated Sediments in the USA and Innovative Technologies for their Assessment. International Summer School - Innovative Approaches to the Management and Physical & Chemical Remediation of Contaminated Sediments. University of Genoa, ITALY. Sponsored by The Interuniversity Consortium INCA, Venezia, University of Genoa, and the University of Bologna. September 8-10, 2005. Genoa, **ITALY**.
- Stern, E.A.** Beyond a European Perspective on Sediment Management. Presented at the 3rd International Sediment Network Conference: The Future of Sediment Management in Europe, Venice International University, San Servolo Island, November 25-26, 2004. Venice, **ITALY** (*Keynote Speaker*).



- Stern, E.A.** Sediment Decontamination - A New Approach to Environmental Remediation and Restoration. Presented at the 3rd Sediment Network Work Package 4 Workshop: Dredged Materials Treatment Workgroup. Guidance for Sustainable Treatment of Dredged Materials. December 1-2, 2003. Bologna, **ITALY**.
- Stern, E.A.** Dredged Material Sediment Decontamination Demonstration for the Port of New York and New Jersey. Presented at the Workshop on Perspective Studies of Accumulation and Fate of Chemical Compounds in Sediments in the Region of Dobczyce Reservoir. Assessment of Potential Risk of Water Contamination. Sponsored by the University of Science and Technology Faculty of Mining Surveying and Environmental Engineering, Department of Environmental Sciences and the Kosciuszko Foundation. May 29-31, 2003. Cracow, **POLAND**.
- Stern, E.A.** Presented at the Assessment, Remediation and Management of Contaminated Sediments and Dredged Materials Workshop. Sponsored by Latvian EPA, EPA Region 3, Ministry of the Environmental Protection and Regional Development of the Republic of Latvia, and the University of Latvia Institute for Marine Ecology. September 24-27, 2002. Jurmala, **LATVIA**.
- Stern, E.A.** Regulations and Guidelines for Sediments in the U.S. Cost Performances in Successful Remedial Projects. (2) New Bedford Harbor - the World's Largest PCB Clean-up. Strategy, Cost, and Performance. Presented at the 3rd International Workshop on Remediation of Marine Sediments. Sponsored by the Sandefjord Municipality and the Norwegian Environmental Technology AS. April 30, 2001. Sandefjord, **NORWAY**.
- Stern, E.A.** Jones, K.W., Clesceri, N.L., Feng, H.E., Douglas, W.S., Jaffess, S.J., and L.A. Baron. Contaminated Sediments/Dredged Material Management for the Port of New York and New Jersey as a Component to Port Development and Revitalization. Presented at the International Workshop on Risk Management of Contaminated Sediments. ANPA Italian Ministry of the Environment and the Venice Port Authority. Venice International University, San Servolo Island, October 18-20, 2000. Venice, **ITALY**.
- Stern, E.A.** Management and Beneficial Use of Contaminated Sediments in Ports and Waterways. A Focus on Sediment Decontamination. Presented at the Workshop on Management and Treatment of Contaminated Sediments. Venice Port Authority, February 3rd, 2000. Venice, **ITALY**.



PRESENTATIONS/POSTERS WITH ABSTRACTS

2018 - 2019

Stern, E.A., Miskewitz, R., Maher, A., Kovalik, A., Yang, D. and M. Kitazume. Stabilization and Beneficial Use of Contaminated Sediments Applying Mobile Pneumatic Flow Tube Mixing for a Circular Economy. 11th International SedNet Conference. Dubrovnik, Croatia. April 3-5, 2019. (abstract submitted)

Lal, P., Stern, E.A., Singh, J., Smith, T., and S. Nadeau. Sustainability Regulatory Integration and Reform for Superfund Sediment Remediation Projects. Abstract submitted to the Battelle 10th International Conference on Remediation and Management of Contaminated Sediments. February 11-14, 2019. New Orleans, Louisiana

Stern, E.A., Miskewitz, R., Kovalik, A.N., Maher, A., Yang, D., and M. Kitazume. Mobile Pneumatic Flow Tube Mixing for Stabilization and Beneficial Use of Contaminated Sediments. Battelle 10th International Conference on Remediation and Management of Contaminated Sediments. February 11-14, 2019. New Orleans, Louisiana (abstract accepted for poster)

Stern, E.A. Urban Sediment Management. Potential Responsible Party (PRP) Contaminated Sediment Summit. October 2, 2019. Hoboken, New Jersey. *(Invited Talk)*

Smith, M., Lal, P., Stern, E.A., Singh, J.P., and T. Wiczerak. Sustainability Regulatory Integration and Reform for Superfund Remediation Projects: An Eco-Industrial Approach. 2018 Middle States Division American Association of Geographers Meeting, Montclair State University. October 26-27, 2018 *(Poster)*

2017

Stern, E.A. New (old) Paradigms in Contaminated Sediment Management – The Quest for Sediment Immortality and are You OK with That? Presented at the Emerging Trends in Management of Contaminated Sediments Workshop. Sponsored by Rutgers University/Center for Advanced Infrastructure and Transportation (CAIT) and RAMBOLL. November 15, 2017. Piscataway, New Jersey *(Invited Talk)*

Stern, E.A., Maher, A., Miskewitz, R., Kitazume, M., Yang., and A. Kovalik. Alternatives to Aquatic Placement Applying Regional Sediment Manufacturing to Innovative Stabilization for Brownfields Beneficial Use. SedNet 10th International Conference – Sediments on the Move. June 14-17, 2017. Genoa, Italy.



Maher, A., **Miskewitz, R.**, Janbaz, M., Kitazume, M., Douglas, S., Yang, D. and E.A. Stern. Pneumatic Flow Tube Mixing for Stabilization of Contaminated Sediments in the NY/NJ Harbor and its Application to Urban Sediment Management. Battelle 9th International Conference on Remediation and Management of Contaminated Sediments. January 9-12, 2017. New Orleans, Louisiana

2015

Pittman, D., Stratton, C., and J. Boule. The Dutch Way in Hoboken: A Rotterdam Design Firm's Plan to Protect the City from the Next Superstorm. Rising Tide Series – Montclair State University. October 27, 2015. **(Moderated by E.A. Stern)**

Dewan, R., Fabricant, R, Harclerode, M. Peck, G., **Stern, E.A.** and T. Taylor. Contaminated Sediment Management for the 21st Century. Montclair State University Continuing Education Program for Environmental Professionals (CEEP) Training. October 16, 2015. **(Training Developer/Lead)**

Peck, E., and **Stern, E.A.** Making Sediment “Relevant” to Policy/Decision Makers: Linking Urban Sediment Management to Social Benefits and Sustainability. Abstract accepted for oral platform to the 9th European Union International SedNet Conference. September 23-26, 2015. Krakow, **POLAND (Presented for E. Peck)**

Stern, E.A. Environmental Strategy for the Construct of Urban Contaminated Sediment Management for the New York/New Jersey Harbor Watershed. The Society of American Military Engineers in collaboration with the Passaic River Institute. April 22, 2015. Montclair State University, Montclair, New Jersey **(Invited Talk)**

Peck, E. and **Stern, E.A.** Superfund in New York and New Jersey Harbor Estuary – The Birth of Superfund Sediment Regional Management. Battelle 8th International Conference on Remediation and Management of Contaminated Sediments. January 12-15, 2015. New Orleans, Louisiana **(Poster)**

Stern, E.A., Peck, E., Mensinger, M., Hendricks, A., Fabricant, R., Beckstrom, B., Leavitt, D. and K.W. Jones. Advanced Thermo-Chemical Sediment Decontamination Processing for United States Urban Superfund Sites. Battelle 8th International Conference on Remediation and Management of Contaminated Sediments. January 12-15, 2015. New Orleans, Louisiana **(Poster)**

Stern, E.A. and M.P. Oen. Implementation and Assessment: Successes in Sustainable Sediment Management. Battelle 8th International Conference on Remediation and Management of Contaminated Sediments. January 12-15, 2015. New Orleans, Louisiana **(Session Chair)**

2014

Isard, P., and **Stern, E.A.** Hydrolyser Application and Development of a Pellet Engineered Fuel for Municipal Solid Waste Management in Italy. 5th International Symposium on Energy from



Biomass and Waste – Venice 2014. November 17-20, 2014. Venice, **ITALY** (**Presented for P.Isard**)

Peck, E, and **Stern, E.A.** Is Sediment Management Really About Managing Sediments? A 21st Century Perspective. International Symposium on Sediment Management (i2SM). September 17-19, 2014. Ferrara, **ITALY**

2013

Stern, E.A., Peck, E., and D.R-Green., A Conceptual Model for Advancing Urban Sediment Management: Allocating Limited Finances to Deliver a Sustainable Outcome. European Union International SedNet Conference. November 6-9, 2013. Lisbon, **PORTUGAL**

Stern, E.A., National Sediment Challenges/Sediment Management for Urban Rivers and What is the End Goal of a Sediment Remediation Project. Environmental Law Education Center 2103 CERCLA & MCTA Advanced Sediment Conference. May 13, 2013. Seattle, Washington. (**Invited Talk/Moderator**)

Stern, E.A. and E. Peck. Integrated and Sustainable Approaches to Global Urban Sediment Management. Battelle 7th International Conference on Remediation of Contaminated Sediments. February 4-7, 2013. Dallas, Texas.

Kruger, M.A, **Stern, E.A.**, Mastalerz, M. and A. Permanyer. Highly Contaminated Sediments from the Gowanus Canal, New York Superfund Site: Beneficial Use as a Fuel Resource. Battelle 7th International Conference on Remediation of Contaminated Sediments. February 4-7, 2013. Dallas, Texas.

Stern, E.A., Sediment Management of Urban Rivers. Battelle 7th International Conference on Remediation of Contaminated Sediments. February 4-7, 2013. Dallas, Texas (**Moderator**)

Stern, E.A., Ex-Situ Sediment Technologies. Battelle 7th International Conference on Remediation of Contaminated Sediments. February 4-7, 2013. Dallas, Texas (**Session Chair**)

2012

Stern, E.A., Beneficial Use of Decontaminated Sediments for Sustainable Landscape Design in Complex Urban Systems – The Perfect Storm. Hudson/Delaware Regional Chapter-Society of Environmental Toxicology and Chemistry. April 26-27, 2012. Montclair State University, Montclair, New Jersey (**Keynote Speaker**)

Kruger, M.A., **Stern, E.A.**, Mastalerz, M., Permanyer, A. and K.K. Olsen., Highly Contaminated Sediments from the Gowanus Canal, NY Superfund Site: Beneficial Use as a Fuel Source. Hudson/Delaware Regional Chapter – Society of Environmental Toxicology and Chemistry. April 26-27, 2012. Montclair State University, Montclair, New Jersey.

2011

Stern, E.A., Sanders, B.M., Peck, E., Della Sala, S., and S. Boehme., Sustainable Approaches to the Assessment, Risk and Remediation of Urban Waterways Utilizing SSWiM Strategies. 7th International EU SedNet Conference. Sediments and Biodiversity: bridging the gap between science and policy. April 6-9, 2011. Venice, **ITALY** (**Poster**)



Stern, E.A., Peck, E., and B.M. Sanders., Integration of Dredged Material, Remediation and Restoration Programs by Regional Sediment Management. Dredged Material Disposal and Containment Platform. Battelle 6th International Conference on Remediation of Contaminated Sediments. February 7-10, 2011. New Orleans, Louisiana.

Stern, E.A., *Assessment of Urban Waterways.* Battelle 6th International Conference on Remediation of Contaminated Sediments. February 7-10, 2011. New Orleans, Louisiana
(Session Chair)

2009

Stern, E.A. *Beneficial Use of Contaminated Sediments.* Battelle 5th International Conference on Remediation of Contaminated Sediments. February 2-5, 2009. Jacksonville, Florida
(Session Chair)

Stern, E.A., Jones, K.W., Douglas, W.S., Feng, H., Olsen, K. and M.A. Kruge. Sediment Treatment Systems and Its Application to Sustainable Sediment Management. Battelle 5th International Conference on Remediation of Contaminated Sediments. February 2-5, 2009. Jacksonville, Florida **(Invited Platform)**

Stern, E.A., Jones, K.W., Douglas, W.S., Feng, H., and N.L. Clesceri. NY/NJ Ex-Situ Sediment Decontamination Program (1994-2008). Battelle 5th International Conference on Remediation of Contaminated Sediments. February 2-5, 2009. Jacksonville, Florida.

Sontag, J.G., Amiran, M.C., Wilde, C.L. and **Stern, E.A.** Topsoil from Contaminated Sediment BioGenesissm Sediment Washing – Lower Passaic River, New Jersey. Battelle 5th International Conference on Remediation of Contaminated Sediments. February 2-5, 2009. Jacksonville, Florida.

2008

Stern, E.A., Jones, K.W., Kruge, M.A., Feng, H., and L.A. Baron. Sustainable Urban and Environmental Management Restoration Applications Using Sediment Treatment Systems with Beneficial Use. 5th International SedNet Conference – Urban Sediment Management and Port Redevelopment & Sediment in River Basin Management Plans. Co-sponsored by the Norwegian Geotechnical Institute. May 27-29, 2008. Oslo, **NORWAY**

Stern, E.A., Jones, K.W., Douglas, W.S., and H. Feng. Decontamination Technologies Promoting the Sustainable Use of Contaminated Sediments with Beneficial Use and their Applications to other Waste-related Materials. USEPA National Science Forum 2008. Innovative Technologies – Key to Environmental and Economic Progress. May 20, 2008. Washington, DC **(Invited Talk)**

Stern, E.A., Integrated Cross-Program Approaches to Sustainable Sediment Management. 14th Annual Northwest Conference on Environmental Cleanup. Sponsored by the Environmental Law Education Center. April 7, 2007, Portland, Oregon **(Invited Talk)**



2007

Kruger, M.A., Olsen, K., and Stern, E.A., Organic Geochemical Investigation of a Highly Contaminated Urban Waterway: The Gowanus Canal, Brooklyn, New York, USA. The 23rd International Meeting on Organic Geochemistry (IMOG) – European Association of Organic Geochemists. September 9-14, 2007 Torquay, Devon, **United Kingdom**

Stern, E.A., Douglas, W.S., Jones, K.W., and H.E. Feng., Prototype Ex-Situ Treatment Train for Processing NY/NJ Harbor Contaminated Sediments. Battelle 4th International Conference on Remediation of Contaminated Sediments. January 22-25, 2007 Savannah, Georgia **(Session Chair Ex-Situ Sediment Treatment)**

Amiran M.C., Wilde, C.L., Sontag, J., Johnson, K., **Stern, E.A.**, and W.S. Douglas., BioGenesis Sediment Washing Technology – Full Scale Demonstration Project in the Port of NY/NJ. Presented at the Battelle 4th International Conference on Remediation of Contaminated Sediments. January 22-25, Savannah Georgia

2006

Stern, E.A., Full-Scale Sediment Decontamination Treatment Demonstration of Passaic River, NJ Superfund Sediments. To be presented at Second Passaic River Symposium: Progress and Challenges. Sponsored by the Passaic River Institute of Montclair State University and the Hudson-Delaware Chapter of the Society for Environmental Toxicology and Chemistry (SETAC). October 13, 2006. Montclair, New Jersey **(Invited)**

Stern, E.A., Jones, K.W., Douglas, W.S., and H.E. Feng., A Proposal for Innovative Sediment Decontamination Technologies Using A Cross Program – Cross Media Business Model. Western Dredging Association XXVI & TAMU 38 / Dredging: Creating A Strong Economy. June 24-27, 2006. San Diego, California

Stern, E.A., Overview of the NY/NJ Harbor Sediment Decontamination Program. Presented at the Portland Harbor Healthy Communities Clean River Workshop. Sponsored the Oregon Center for Environmental Health and USEPA Region 10 – Seattle. June 3, 2006. Portland, Oregon **(Invited Talk)**

2005

Feng, H., Onwueme, V., Jaslanek, W.J., **Stern, E.A.**, Jones, K.W., and K. Barrett., Mapping Temporal and Spatial Distribution of Contaminants in the lower Passaic River, NJ Sediments. The Society of Environmental Toxicology and Chemistry (SETAC), North America 26th Annual Meeting. November 13-17, 2005. Baltimore, Maryland **(Poster)**

Jones, K.W., Feng, H., and **Stern, E.A.** Characterization of Sediments and Other Materials Using Synchrotron Radiation. Presented at the 32nd FACSS Annual Meeting. October 9-13, 2005. Quebec City, **CANADA**



Stern, E.A. National Trends and Emerging Technologies in Contaminated Sediments. Presented at The Advanced Sediment Conference - Evaluation, Management, Treatment and Disposal. Sponsored by the Environmental Law Education Center. September 16, 2005. Seattle, Washington (*Invited*)

Jones, K.W., Feng, H., and Stern, E.A. Properties of NY/NJ Harbor Sediments. Presented at the Zakopane School of Physics. International Symposium: Breaking Frontiers – Submicron Structures in Physics and Biology. Sponsored by the Polish Academy of Sciences. May 20-25, 2006. Zakopane, **POLAND** (*Invited*)

Stern, E.A. Reinventing Sediment Management. Presented at the 8th Annual Conference on Cleaning up Contaminated Sediment Sites - Legal, Technical and Practical Solutions. Sponsored by the Environmental Law Education Center. May 6th 2005. Portland, Oregon (*Keynote Speaker*)

Stern, E.A., Jones, K.W., Douglas, W.S., Feng, H., and S. Della Sala., Full-scale Sediment Decontamination Application - New York/New Jersey Harbor. Presented at the 3rd International Conference on Remediation of Contaminated Sediments. January 24-27, 2005. New Orleans, Louisiana

Gardner, K.H., Tsiatsios, and Stern, E.A. Introduction to Contaminated Sediments Used Beneficially in Civil Infrastructure and an Assessment of Leaching Behavior. Presented at the 3rd International Conference on Remediation of Contaminated Sediments. January 24-27, 2005. New Orleans, Louisiana (*Session Co-Chair: Beneficial Use for Civil Infrastructure*)

Johnson, K.A., DeDen, M., Amiran, M.C., Sontag, J.G., **Stern, E.A.,** Della Sala, S. and G. Ide., Implementation of the BioGenesis Sediment Washing System Technology Pilot Project - Venice, Italy. Presented at the 3rd International Conference on Remediation of Contaminated Sediments. January 24-27, 2005. New Orleans, Louisiana. (*Poster*)

2004

Stern, E.A. Sediment Decontamination - What Works and What Doesn't. Presented at the Technology Forum on Innovative Reuse of Dredged Material. Sponsored by the Maryland Department of Transportation / Maryland Port Administration. December 9, 2004. Annapolis, Maryland (*Invited Talk*)

Gardner, K.H., and Stern, E.A. Status of Ex-Situ and In-Situ Treatment Methods. Presented at the EPA, USACE-WES, USN, NOAA, Sediment Management Work Group sponsored meeting "Addressing Uncertainty and Managing Risk at Contaminated Sediment Sites" October 26-28, 2004. St. Louis, Missouri (*Invited Talk*)

Stern, E.A., Jones, K.W., Douglas, W.S., Feng, H., and N.L. Clesceri., Sediment Decontamination for Waterfront Revitalization and Ecosystem Restoration. Presented at the Gowanus Canal Conference, Brooklyn College, June 10th, 2004. Brooklyn, New York (*Invited Talk*)



Stern, E.A., Jones, K.W., Douglas, W.S., Feng, H., and N.L. Clesceri., Sediment Decontamination for Navigational and Environmental Remediation and Restoration. Case Study - Passaic River, New Jersey. Presented at the Passaic River Symposium. June 9, 2004. Montclair State University, Montclair, New Jersey (***Invited Talk***)

Feng, H., Onwueme, V., Jaslanek, W.J. and **Stern, E.A.** Lower Passaic River Sediment Contamination Study: Using GIS as a Visualization Tool. Poster presented at Passaic River Symposium, Montclair State University "Who's Doing What?" June 9, 2004. Montclair, New Jersey (***Poster***)

Stern, E.A. Sediment Decontamination for Waterfront Revitalization and Ecosystem Restoration. Presented at the EPA Urban Rivers Restoration Initiative Forum Meeting, June 22-23, 2004. Salt Lake City, Utah (***Invited Talk***)

Feng, H., Onwueme, V., Jaslanek, W.J., **Stern, E.A.** Chopping, M., and K.W. Jones., Using GIS to Study Pollutant Source Function in the Passaic River System, New Jersey. Presented at the Association of American Geographers 100th Annual Meeting, March 14-19, 2004. Philadelphia, Pennsylvania (***Poster***).

2003

Stern, E.A. Innovative Sediment Decontamination Technologies with Beneficial Use Applications. Presented at The Society of American Military Engineers North Atlantic Regional Conference. October 8-10, 2003. New York, New York (***Invited Talk***)

Feng, H., Jaslanek, W.J., **Stern, E.A.**, K.W. Jones and V. Onwueme. Distribution of contaminants in the New York/New Jersey Harbor. Presented at Meadowlands Symposium-A scientific symposium focusing on the Hackensack Meadowlands New Jersey Meadowlands Commission, October 9-10. 2003. Lyndhurst, New Jersey.

Stern, E.A., Jones, K.W., Douglas, W.S., and H. Feng. Sediment Decontamination for Navigational and Environmental Restoration in New York/New Jersey Harbor. Presented at the Second International Conference on Remediation of Contaminated Sediments, September 30 - October 3, 2003. Venice, ITALY (***Session Chair: Dredged Material Management***).

Van der Lelie, **Jones, K.W.**, Reid-Green, J.D., and Stern, E.A. Natural Attenuation for Ecosystem Restoration in New York/New Jersey Harbor. Presented at the Second International Conference on Remediation of Contaminated Sediments, September 30 - October, 3 2003. Venice, ITALY (Abstract).

K.A. Johnson, DeDen, M., Amiran, M.C., Wilde, C.L., **Stern, E.A.**, Della Sala, S., and I. Janssens. Implementation of the BioGenesis Sediment Washing System Technology Pilot Project at the Port of Venice, Italy 2003. Second International Conference on Remediation of Contaminated Sediments, September 30 - October, 3 2003. Venice, ITALY (***Poster***).

Baron, L.A., and Stern, E.A. Comprehensive Restoration of the Passaic River. Presented at the SETAC 24th Annual Meeting, Austin, Texas. (Abstract).



Stern, E.A. Beneficial Use of Dredged Material for the Port of New York/New Jersey. Presented at “Understanding Dredged Material and Contaminated Sediments.” The Monmouth-Ocean County Development Commission, Belmar, New Jersey. ***(Invited Talk)***

2002

Stern, E.A. Sediment Decontamination and its Role in the Overall Dredged Material / Contaminated Sediment Strategy. Presented at The Society of American Military Engineers New Jersey Post Meeting. November 21, 2002.

Stern, E.A., Jones, K.W., Douglas, W.S., Feng, H., Clesceri, N.L., and J.L. Lodge. Sediment Decontamination with Beneficial Use for the Port of New York and New Jersey. Presented at the EPA Science Forum 2002: Meeting the Challenges. May 1-2, 2002. The Ronald Reagan Building, Washington, DC ***(Poster)***

2001

Stern, E.A., Jones, K.W., Douglas, W.S., Feng, H., Clesceri, N.L. and J.L. Lodge. New York/New Jersey Dredged Material Decontamination and Beneficial Use Demonstration. International Conference on Remediation of Contaminated Sediments. Sponsored by Battelle and Azienda Multiservizi Ambientali Veneziana. October 10-12, 2001. Venice, **ITALY, Session Co-Chair - Beneficial Use of Dredged Material (Did not attend/present 9-11).**

Stern, E.A. Sediment Decontamination Technology and its Application in Restoration and Re-Development. Presented at the Comprehensive Restoration of Aquatic Environments: Hudson-Delaware Chapter of Society of Environmental Toxicology and Chemistry (SETAC) Fall Workshop. September 21, 2001. Newark, New Jersey ***(Invited Talk)***

Stern, E.A. Site Specific/Regional Approaches to Sediment Decontamination. Presented at the Workshop on Treating Great Lakes Contaminated Sediments. Sponsored by the EPA Great Lakes National Program Office, Environment Canada, and the Great Lakes Commission. April 24-25, 2001. Ann Arbor, Michigan ***(Invited Talk)***

Stern, E.A. Sediment Decontamination as a Beneficial Use Component to the Revitalization of Port and Brownfields Developments. Presented at the Hazardous Waste Committee Program Seminar on Brownfields and Dredged Sediments - Synergistic Partnerships in the Re-Development of Impaired Properties. Sponsored by the New Jersey Water Environment Association. March 29, 2001. Iselin, New Jersey ***(Invited Talk)***

2000

Stern, E.A., Lodge, J.L., Jones, K.W., Clesceri, N.L., Feng, H., and W.S. Douglas. Decontamination and Beneficial Use of Dredged Material. Presented at the Conference on Dredged Materials Management: Options and Environmental Considerations. December 3-6 2000. Cambridge, Massachusetts.



Baron, L.A., Douglas, W.S., **Stern, E.A.**, Jaffess, S.J., and J. Lodge. Sediment Remediation and Comprehensive Restoration of a Heavily Urbanized River in New Jersey. Presented at the Society of Environmental Toxicology and Chemistry (SETAC) 21st Annual Meeting. November 12-16, 2000. Nashville, Tennessee.

Stern, E.A., Jones, K.W., Clesceri, N.L., Douglas, W.S., and H. Feng. Commercial-scale Sediment Decontamination as a Component to Port Development and Revitalization. Presented at the International Environmental Technology Expo2000. June 5-7, 2000. Atlantic City, New Jersey

Clesceri, N.L., **Stern, E.A.**, Feng, H., and K.W. Jones. Decontaminating and Processing Dredged Material for Beneficial Use. Presented at the Environmental Forum Columbia-Canada: Solutions to Environmental Problems in Latin America. May 24-26, 2000. Cartagena de Indias, COLUMBIA (*Invited Talk*)

1989-1999

Stern, E.A., Feng, H., and K.W. Jones. Source, Transport and Environmental Ecological Effect of Contaminated Sediments in the NY/NJ Harbor. Presented at the Society of Environmental Toxicology and Chemistry (SETAC) 20th Annual Meeting. November 14-18, 1999. Philadelphia, Pennsylvania (*Session Co-Chair - Estuarine Biogeochemistry of Chemical Contaminants*).

Jones, K.W., **Stern, E.A.**, Feng, H., Ma, H., and N.L. Clesceri. Removing Organic Pollutants from the NY/NJ Harbor. Presented at the Society of Environmental Toxicology and Chemistry (SETAC) 20th Annual Meeting. November 14-18, 1999. Philadelphia, Pennsylvania.

Stern, E.A., Jones, K.W., Lodge, J.L., Feng, H., and N.L. Clesceri. Sediment Decontamination - A Component of an Overall Dredged Material/Contaminated Sediment Strategy for the Port of New York/New Jersey. Presented at the Marine Transportation System (ITS) Research and Development Coordination Conference. Sponsored by the Interagency Committee on Waterways Management. Dredging and Contaminated Sediment Technical Session. National Academy of Sciences. November 2-4, 1999. Washington, DC. (*Invited Talk*)

Stern, E.A. Sediment Decontamination Approach to Dredged Material Management - Impact on Waterfront Development Programs. Presented at the Session on Creating-Improving Port and Waterfront Re-Development Using Brownfields and Dredged Sediment Programs. Sponsored by the Hazardous Waste Committee of the New Jersey Water Environment Association. October 26, 1999. Tinton Falls, New Jersey (*Invited Talk*)

Stern, E.A. Sediment Decontamination Technologies Seminar - Commencement Bay Dredged Material Alternatives. Sponsored by Roy F. Weston, Inc and the U.S. Army Corps of Engineers Seattle District. May 13, 1999. Seattle, Washington (*Invited Talk*)

Stern, E.A. Sediment Decontamination of New York/New Jersey Harbor Sediments. Presented at the Conference on Environmental Decision Making: Strategies for Cost-Effective



Compliance and Quality Management. Sponsored by EPA, New York State Department of Environmental Conservation and the New York Water Environment Association. November 19, 1998. Yorktown Heights, New York *(Invited Talk)*

Stern, E.A. Dredged Material Management for the Port of New York/New Jersey - Sediment Decontamination and Lessons Learned: Presented at the U.S. Navy Workshop on Contaminated Sediments. Office of Naval Research - Division of Environmental Services, Space and Warfare Systems. October 16, 1998. San Diego, California *(Invited Talk)*

Stern, E.A. Pollutants of Concern. Presented at the Short Course "Understanding Contaminated Sediments - Analysis, Interpretation, and Remediation." Sponsored by the Department of Engineering, University of Wisconsin, Madison in Cooperation with the New York State Department of Environmental Conservation and the Empire State Development Corporation. October 6-8, 1998. Albany, New York *(Invited Talk)*

Stern, E.A. Remediation of Brownfields/Landfills Using Innovative Technologies and Non-Conventional Materials. Presented at the Workshop "Federal Perspective on Reuse Options." Sponsored by the New Jersey Water Environment Association, New Jersey Office of Maritime Resources, and the New Jersey Department of Environmental Conservation. June 2, 1998. New Brunswick, New Jersey *(Invited Talk)*

Ma, H., Jones, K.W., **Stern, E.A.**, and L.R. Richman. Scientific Visualization and Scattered Data Modeling of Sediment Contaminant Concentration in the lower Passaic River, New Jersey. Presented at the 1998 Spring Meeting of the American Geophysical Union, May 26-29, 1998. Massachusetts.

Stern, E.A. Overview of Sediment Treatment. Presented at the American Association of Port Authorities (AAP) Harbors Navigation and Environmental Seminar. Urban Ports: Catalysts for Environmental Enhancement and Economic Development. May 13, 1998. Philadelphia, Pennsylvania *(Invited Talk)*

Stern, E.A., Jones, K.W., Donato, K.R., and N.L. Clesceri. Dredged Material Decontamination and Technology Commercialization in New York/New Jersey Harbor. Presented at the Marine and Estuarine Shallow Water Science and Management Conference, March 15-19, 1998. Atlantic City, New Jersey.

Stern, E.A. The Treatment of Contaminated Sediments in New York/New Jersey Harbor. Presented at the American Association for the Advancement of Science (AAAS) - Coastal Habitat and Contaminated Sediment Platform Session. February, 1998. Philadelphia, Pennsylvania.

Stern, E.A. Environmentally Sound Disposal and Decontamination. Presented at the 1997 National Dredging Conference: Our Vision of the Port - Making Needed Dredging Happen. Sponsored by the Maritime Association of the Port of New York and New Jersey. November 18, 1997. New York, New York *(Invited Talk)*

Stern, E.A. Results and Status of a Congressionally Mandated Research and Development Technology Program for Decontamination of Dredged Materials. Presented at the Texas



- A&M 28th Annual Dredging Seminar and Western Dredging Association (WEDA) National / Annual Conference. Ch July, 1997, Charleston, South Carolina.
- Stern, E.A.**, Jones, K.W., and K. Donato. Ex-Situ Treatment Technologies. The New York / New Jersey Harbor Sediment Decontamination Story. Presented at the EPA National Conference on the Management and Treatment of Contaminated Sediments. May, 1997. Cincinnati, Ohio (*Invited Talk*)
- Stern, E.A.** Sediment Processing/Decontamination Project Goals. Presented at the Hudson River Environmental Society - Partnership for Research and Monitoring: Meeting the Goals of the Hudson River Estuary Management Plan. Marist College. November 21, 1996. New York (*Invited Talk*)
- Stern, E.A.**, Donato, K., Jones, K.W., and N.L. Clesceri. Decontamination of Dredged Material from the Port of New York/New Jersey. Presented at the Estuarine and Coastal Sciences Association/Estuarine Research Foundation 96 Symposium, Middleburg. September 16-20 1996. The Netherlands.
- Clesceri, L.S., Clesceri, N.L., DeLuca, M.P., Donato, Jones, K.W., Klein, R.C., Korfiatis, G.P., McKenna, G., and **Stern, E.A.** Technologies for Sediment Decontamination in the Port of New York/New Jersey. Presented at the 11th Annual Conference on Contaminated Soils: Analysis, Fate, Environmental & Public Health Effects and Remediation. October 20, 1996. Amherst, Massachusetts.
- Clesceri, N., DeLuca, M., Donato, K., Jones, K., Korfiatis, G., Massa, A., McKenna, G., Olah, J., and **Stern, E.A.** Technologies for Decontaminating Dredged Estuarine Sediments from New York/New Jersey Harbor. Presented at the Society of Environmental Chemistry and Technology (SETAC) North Atlantic Chapter Summer Meeting. July 15-16, 1995. Plymouth, Massachusetts.
- Goswami, A., Clesceri, N.L., Preiss, I., **Stern, E.A.**, Jones, K.W., and K. Donato. Evaluation of Treatment, Disposal, and Managerial Options for Dredged Material from Newark Bay, Arthur Kill, and Newtown Creek (New York/New Jersey) and Proposed Design. Presented at the 50th Annual Purdue Industrial Wastes Conference. May 18, 1995. Lafayette, Indiana.
- Stern, E.A.** Assessment and Management of Dioxin Contaminated Sediments in the New York/ New Jersey Harbor Estuary. Presented at the Hudson River Foundation. March, 1994. New York, New York (*Invited*).
- Long, E.R., Wolfe, D.A., **Stern, E.A.**, and G.B. Thursby. (1993). Sediment Toxicity in the Hudson-Raritan Estuary. Society of Environmental Toxicology and Chemistry (SETAC), 14th Annual Meeting. November, 1993. Houston Texas.



Stern, E.A. Sediment and Biota Contamination in the New York/New Jersey Harbor Estuary with Emphasis on Ocean Disposal of Dredged Materials. Presented at Hunter College, Department of Geology and Geography. March 22, 1990. New York, New York **(Invited Talk)**

Stern, E.A. Total Bioaccumulation Potential of 2,3,7,8-TCDD. Presented at the U.S. Army Corps of Engineers Contaminated Sediments Workshop. July 25-27, 1989. Buffalo, New York **(Invited Talk)**

Stern, E.A., Siting an Alternative Ocean Disposal Site and a Replacement Mud Dump Site. Presented at the U.S. Army Corps of Engineers North Atlantic Division Water Quality Annual Meeting. June 20-22, 1989. State College, Pennsylvania **(Invited Talk)**

Stern, E.A. The Development of a Decision Making Framework for the Evaluation of Sediments Containing 2,3,7,8- TCDD. Presented at the U.S. Army Corps of Engineers Coastal and Inland Water Quality Seminar. February 6-8, 1989. Las Vegas, Nevada **(Invited Talk)**

TECHNICAL REPORTS

- USACE New England District, December 2015. Final Programmatic Environmental Impact Statement for the Long Island Sound Dredged Material Management Plan. Prepared by Battelle Memorial Institute, Norwell, MA (Contract # W912W5-12-D 0004). Co-author of Dredged Material Alternatives and Sediment Treatment Sections).
- USEPA, USACE, and USDOE. 1999. Fast Track Dredged Material Decontamination Demonstration for the Port of New York and New Jersey. An interim Report to Congress on the Water Resources Development Acts of 1990 (Section 412), 1992 (Section 405C), and 1996 (Section 226).
<http://www.nj.gov/dep/passaicdocs/docs/NJDOTSupportingCosts/DECON-REPORT-EPA-FastTrkDredgedMatDeconDemoPortNYNJ1999.pdf>
- USEPA. 1992. Long Island Sound Study Comprehensive Conservation and Management Plan: Floatables Debris Module. Assessment of Conditions and Management Recommendations. Prepared by M. Masters and E.A. Stern, EPA Region 2, for the Floatables Debris Work Group of the LISS. pp.37.
- USEPA. 1990. Phase II Report: Preliminary New York Bight Toxics Categorization. Prepared by E.A. Stern and R.E. Dietrich, EPA Region 2, for The Toxics Inputs, Fate and Effects Workgroup of the New York Bight Restoration Plan. June 1990.
- Stern, E.A. 1984. Chemical Oceanography Annotations: Lower Chesapeake Bay. In: J.C. Ludwick et al (eds.) Annotated Bibliography of the Lower Chesapeake Bay: Current Literature of Biological, Chemical, Geological and Physical Studies. U.S. Army Corps of Engineers,



PROFESSIONAL ORGANIZATIONS

- [Sediment Management Work Group \(SMWG\)](#) (past member)
- EU [SedNet - European Sediment Network](#) Workgroup Member and Contributor: WP4 Sediment Treatment and Remediation Workgroup
 - Sediment and Policy Interface (SPI) Workgroup (2015)
 - Sediment Transport – From the Mountains to the Sea (2017 - Present)
- [Central European Dredging Association \(CEDA\) / Beneficial Use Workgroup \(2017 – Present\)](#)

NEWS AND MEDIA COVERAGE

- International Dredging Review

Pneumatic Tube Mixing

<https://www.dredgemag.com/2018/05/14/tipping-point-receives-permit-to-operate-in-connecticut/>

<https://www.dredgemag.com/2017/09/27/tipping-point-llc-will-facilitate-beneficial-use-in-connecticut-area/>

<http://www.dredgemag.com/September-October-2016/Rutgers-Team-Tests-High-Capacity-Sediment-Mixing-Technology-at-the-Port-of-New-York-New-Jersey/>

I2SM Sediment Management Conference - Montreal, Canada

<http://www.dredgemag.com/September-October-2016/Sediment-Symposium-Explored-Beneficial-Use-Markets/>

- Tonight at Dawn Magazine. 2014.
<http://tonightatdawn.com/2014/09/02/sediment-dirty-mud-can-be-a-beautiful-thing/>
- Environment and Energy Management Newsletter.2013.
http://www.gwu.edu/~eemnews/previousissues/sp13_art3.html
- Passaic River Institute Symposium.2012.
<http://www.njvid.net/show.php?pid=njcore:27206>
- Metropolitan Waterfront Alliance. Dredged Materials Management.



<http://www.waterfrontalliance.org/node/2441>

- Brookhaven National Laboratory News and Features. 2004.
<http://www.bnl.gov/newsroom/news.php?a=1155>
- New York-New Jersey Harbor Estuary Program News Letter. Summer 2004.
<http://www.harborestuary.org/TEsummer04.htm>
- EPA Contaminated Sediment Newsletter#16.
<http://water.epa.gov/polwaste/sediments/cs/csnews16.cfm>

