



Soil and Materials Engineers, Inc.

offices



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founder

Kenneth W. Kramer, PE

principals

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Gerard P. Madej, PE
Timothy J. Mitchell, PE
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team members

200

projects completed

62,000

professional staff

Brownfield Consultants
Environmental Scientists/Engineers
Facility Engineers
Forensic Engineers
Geologists
Geotechnical Engineers

Hydrogeologists
LEED Accredited Professionals (AP)
Materials Consultants
Metals Consultants
Pavement Engineers
Roofing Consultants

technical staff

Asbestos Specialists
Certified Aggregate Inspectors
Certified Bituminous Plant Inspectors
Certified Masonry Inspectors
Certified Welding Inspectors

Coating Specialists
NICET Engineering Technicians
Qualified Concrete Technicians
Restoration Specialists
Roofing and Pavement Specialists

site acquisition

PRELIMINARY GEOTECHNICAL EVALUATION

Site Buildability
Subgrade Preparation and Earthwork Considerations
Feasible Foundation Systems
Basement Construction Feasibility
Preliminary Construction Considerations

ENVIRONMENTAL DUE DILIGENCE

Phase I and II Site Assessments
Environmental Evaluations and Management
Hazardous Materials Consulting

- Asbestos
- Lead Paint
- Mold
- PCB/Mercury

Hydrogeologic Studies

BROWNFIELD REDEVELOPMENT PLANNING AND INCENTIVES

Safe Use Assessment and Planning
Brownfield Grants and Loans
Tax Increment Financing
Tax Credits

PROPERTY CONDITION ASSESSMENT

Site
Building Envelope
Life/Fire Safety Protection, Security Systems
Interior Elements
Disabled Accessibility

LEED CONSULTING/PLANNING

design

GEOTECHNICAL ENGINEERING

Foundations

- Combined Footings
- Driven Piles
- Drilled Shafts (Caissons)
- Mat Foundations
- Augercast Piles
- Micropiles

Earth Retention Systems

- Braced Excavations
- Cofferdams
- Tangential Augercast Walls
- Deep Sheeted Pits
- Sheet Pile Retaining Walls
- Ground Anchors and Soil Nails

Ground Improvement

- Compaction Grouting
- Jet Grouting
- Surcharging
- Chemical Grouting
- Vibro-compaction/
Vibro-replacement
- Deep Dynamic Compaction

Slabs-on-Grade
Vibrations/Soil Dynamics

SITE DESIGN SERVICES

Site Development

- Earthwork
- Ground Improvement
- Groundwater
- Utilities
- Slopes

Specialized Foundations
Earth Retaining Structures/Underpinning
Specialized Embankments
Pavements

- Bituminous
- Porous
- Portland Concrete

Consulting to Reduce Site Unknowns and Earthwork Costs

MATERIAL TECHNOLOGY DESIGN SERVICES

Roofs

- BUR
- Copper
- Green
- Single-Ply

Structural Steel
Sealants/Waterproofing
Coatings
Masonry
Green Materials Selection/Specifications

ENVIRONMENTAL CONSULTING/DESIGN SERVICES

Geothermal
Storm Water Management
Groundwater Supply
Remediation Planning and Design
Site Planning for Contamination Containment
Vapor Intrusion Management/Exposure Barriers

LEED CONSULTING/PLANNING

VALUE ENGINEERING

construction

GEOTECHNICAL ENGINEERING

Foundation Installations

- Verification of Bearing/Load Capacity
- Field Load Tests

Subgrade Soil Evaluations
Earthwork
Vibrations
Instrumentation

- Slope Indicators
- Settlement Plates/Gauges
- Piezometers
- Strain Gauges/Load Cells

CONSTRUCTION MONITORING AND MATERIALS TESTING

Engineered Fill
Concrete
Reinforcing Steel
Structural Steel
Fireproofing/Firestopping
Masonry/Stone
Roofing
Sealants/Waterproofing
Coatings
Pavements

ENVIRONMENTAL CONSULTING

Contaminated Material Management
Storm Water Permitting and Management
Groundwater Discharge Permitting and Management
Hazardous Materials Consulting
Recycling Management
Indoor Air Quality Monitoring/Clearance
Health and Safety Programs

CONSTRUCTION DRAW REVIEWS

EXPERT WITNESS/DISPUTE RESOLUTION

rehabilitation/restoration

GEOTECHNICAL ENGINEERING

Foundations

- Evaluation of Capacity
- Underpinning and Shoring

Settlement Monitoring and Improvement
Earth Retention

PAVEMENT ENGINEERING/MANAGEMENT

Evaluations, including NDT and Road Profiling
Maintenance and Restoration Programs
Design, including Porous Pavements
Plans and Specifications
Construction Monitoring and Materials Testing

ROOF MANAGEMENT

Evaluations/IR Surveys
Maintenance and Restoration Programs
Design, including Green Roofs
Plans and Specifications
Construction Monitoring and Materials Testing

MATERIAL TECHNOLOGY CONSULTING

Building Facades/Curtainwall
Sealants/Waterproofing
Coatings
Corrosion
Material Failure Evaluations
Load Testing
Non-Destructive Testing
Building Material Restoration
Energy Efficiency Studies
Material Reuse Programs

ENVIRONMENTAL CONSULTING

Air Quality Assessments (outdoor/indoor)
Safe Use Planning and Design
Hazardous Materials Consulting
Storm Water Management/Permitting
Regulatory Compliance Audits
Health and Safety Programs
Geothermal Studies

LEED CONSULTING/PLANNING

THIRD-PARTY LEED CERTIFICATION/VERIFICATION

FACILITY ASSET MANAGEMENT

FORENSIC STUDIES