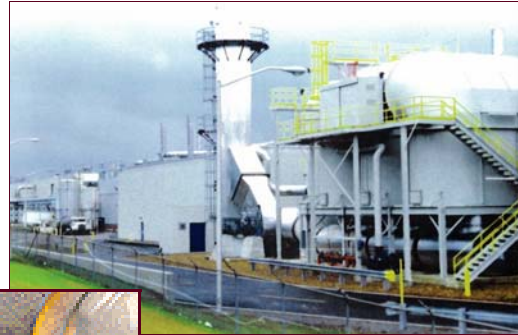
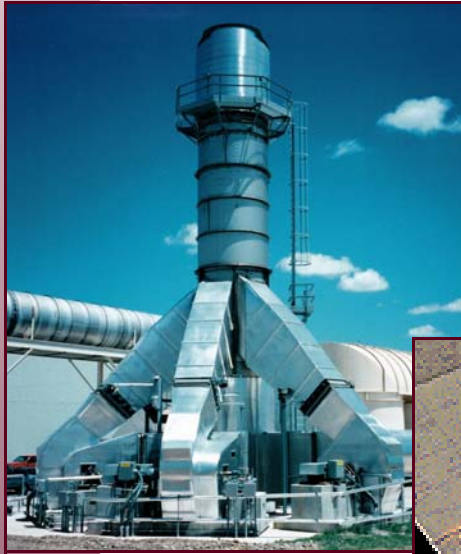




# Unified Theory, Inc.

Innovative Engineering &  
Management Solutions



Serving  
Industrial Clients  
In Processes, Facilities and  
Reduction of Emissions of  
Volatile Organic Compounds  
Through a Variety of Technologies

- ✓ Save Time
- ✓ Save Money
- ✓ Utilize Industry Experts

Now you can expand and supplement your in-house resources capabilities  
**with out**  
hiring additional staff or purchasing expensive equipment...



### Our Staff

- Our talented and diverse staff has many years of experience working in widely varied industries.
- Dedicated to giving our clients personal attention with multifaceted, state-of-the-art design services.
- Our Engineers, Architects, Designers, Consultants, and Construction Management Personnel work as your team to fulfill your project vision.
- Integrated Full-Service Engineering and Architectural capabilities allow for turnkey process of facility projects.



### Services

The following is a short list of our Engineering Disciplines that we can provide to your company:

- Civil
- Architectural
- Structural Engineers
- Mechanical Engineers
- Electrical / Power Distribution
- Electrical / PI&C Engineers
- Metallurgy
- Chemical Engineers
- Thermal Process Modeling and Equipment Sizing
- Process Engineering
- PSMs, PHAs, PSSR's Including Audits
- Project Management
- Construction Management
- ACAD Systems, Mechanical Desktop 2004, Rebis and MicroStation
- Design Build



### Why UTI?

- Majority of Engineers have 25 – 40 years experience
- Key Professional Engineering Skills to Compliment Your Business and Manufacturing Needs
- Focus on Improvements that Drive Productivity Increases through Cost and Design Control
- Foster Teamwork and Collaboration through Effective Communication in the Midst of Change
- Focused and Flexible Company with Rapidly Deployable Resources
- Knowledge of Industrial Standards and Specifications.

*Save Time & Money*

*When Utilizing our  
"Industry Experts"*

*Unified Theory, Inc.*



#### Locations:

Brookings, SD  
605-691-5889

Camarillo, CA  
805-389-7420

Decatur, IL  
217-876-7730

Kohler, WI  
920-467-1440

Madison, WI  
608-825-4959

St. Paul, MN  
651-578-8100

# Professional Services Provided by UTI

- Full Service Engineering for Industrial Facilities and Processes
- Preliminary Engineering and Development of Appropriation Grade Engineering Estimates
- Development of Process Flow Drawings & Process Instrumentation Drawings
- Project Management
- Construction Management
- Process Optimization
- Process Modeling with ChemCAD
- Process Modeling Empirically
- Process Hazard Analysis (PHA)
- Process Safety Management (PSM)
- Process Safety Management Audits
- Pre-Startup Safety Reviews (PSSR)
- Incident Investigations
- Technical Training
- Commissioning, Shake Down and Start Up
- Due Diligent Reviews for Acquisitions
- Temporary Technical Resources, i.e.
  - ✧ CAD (ACAD-2004, Mech. Desktop 2004, Rebis, and MicroStation)
  - ✧ Engineering & Design
  - ✧ MIS
  - ✧ PLC-Programming
  - ✧ Project Scheduling
  - ✧ Technical Writing
  - ✧ Training



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## Specific Process Expertise (Partial Listing)

### VOCs Area:

- Solvent Handling, including VOCs Emission Reductions and Recovery
- Odor Control through various technologies, such as Scrubbers, Carbon Adsorption, Bio Technology and Thermal Oxidation
- Thermal Oxidation Systems ranging in size from 2,000 cfm to 250,000 cfm
- Solvent Recovery Systems ranging in size from 5,000 cfm to 25,000 cfm
- Bio Technologies up to 30,000 cfm
- Incident Investigation of Failed Systems



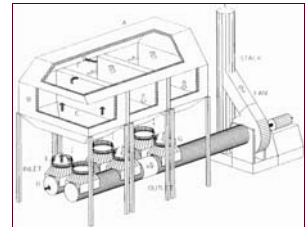
### Processes:

- Agricultural Solvent Extraction Facilities and Process Systems
- Grain Milling and Processing
- Theoretical & Empirical Process Modeling
- Process Equipment Modeling, Sizing and Specifications
- Chemical Piping and Control
- Solvent Handling, Unloading and Storage Facilities
- Waste Heat Recovery
- High and Low Pressure Steam Systems
- High Temperature Water and Hot Oil Systems
- Ultra Pure Water Systems up to 17-Meg Ohm
- Specialty Gas Systems
- Inert Systems



### Facilities:

- Design of Manufacturing Facilities
- Clean Rooms ranging from Class 10 to 10,000
- Dry Rooms to -60 Degree Dew Point
- Research and Quality Control Laboratories
- Industrial Ventilation Systems



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## List Of Recent Projects by UTI

- Improving VOC Capture Efficiency
- Design and Specification for VOCs Emission Reduction Equipment and Systems
- Developed Standard CAD Details for VOCs Emission Reduction Systems
- Redesigned Stack and Source Dampers in Conjunction with VOCs Emissions Reduction Equipment to Improve Process Optimization, Comply with MACT Standards and Reduce Energy Costs
- Optimization Thermal Oxidation Systems
- Specified Solvent Recovery Coil Replacements
- Provided Financial Analysis for VOCs Emission Reduction Systems to Provide the Most Cost Effective System for given Applications
- Provided Incident Investigation for Misapplied VOCs Emission Reduction Systems and Equipment Failures
- Provided Expert Witness for Failed VOCs Emission Reduction Systems
- Provided Solvent Extraction Systems Engineering Design
- Designed Solvent Handling, Storage and Unloading Facilities
- Inline Moisture Process Control Systems
- Development of Pulp & Paper Plant P&ID Drawings for Hazardous Systems
- Created Process Flow Drawings & Mass Balance Tables
- Tether (Life Line) Certification
- Calendaring Roll Design and Consultation
- Overhead Material Handling Systems and Hoist Certification
- Polyester Fiber Handling System
- Trim/Weed Conveying System
- Ammonia Engine Room Redesign and Certification
- Sewer System Design
- Construction Management for Chemical Plants, Food Plants and Greenfield Facilities
- Furnace Gas Train Evaluation and Design
- Laminator and Sputter Platform Equipment
- Automotive Plant Expansions



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# Unified Theory, Inc. Locations



**LEGEND**

- Offices
- Locations where our Associates have provided professional services.

## Offices:

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Brookings, SD	(605) 691-5889
Camarillo, CA	(805) 389-7420
Decatur, Illinois	(217) 876-7730
Kohler, Wisconsin	(920) 467-1440
Madison, Wisconsin	(608) 825-4959
St. Paul, Minnesota	(651) 578-8100

Web Site: <http://www.unifiedtheory.net>



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