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# Resource

Engineering & Technology for a Sustainable World

## Guide to Consultants

# 2006

# Guide to Consultants 2006

**T**his Guide to Consultants is presented as a service to people interested in agricultural/biological engineering assistance. This listing is not an offer or advertisement to provide engineering services in any state or jurisdiction where the professional engineer or professional engineering firm is not registered/licensed. All information was provided by the listed consultant. The American Society of Agricultural and Biological Engineers (ASABE) assumes no responsibility for the validity of the qualifications listed or the consulting services performed.

The Guide includes listings for registered professional engineers and consultants who are not registered engineers. In the United States the registration/licensing of professional engineers is vested in the states/territories. Administration of the relevant laws governing the practice of engineering is assigned to engineering boards. The primary role of these regulatory boards is to protect the life, health, property, and welfare of the public and to ensure that unqualified individuals do not practice engineering. Many other countries also have laws and regulations pertaining to the practice of engineering. When selecting a consultant, it is recommended that any jurisdictional registration/licensing requirements be identified for specific services.

In the following listings, the date after the specialty description is the professional engineer's initial registration date. The state(s) or country in which the consultant is registered follows the date. The consultant's availability is given on the next line, including geographic area of service.

Indication of registration in a single state does not imply that a professional engineer cannot be registered in other states. Most state engineering registration laws and rules are patterned after guidelines prepared by the National Council of Examiners for Engineering and Surveying, P.O. Box 1868, Clemson, SC 29633, USA. Most states have laws that permit a professional engineer to become registered in other states, either temporarily or permanently, without re-examination. Consideration of the consultant should be on the basis of the consultant's qualifications and not on where registered, because many consultants can obtain registration in other states or jurisdictions.

Consultants who are not registered professional engineers may have qualifications and expertise in areas other than those requiring professional registrations. Prospective clients should always confirm, through independent sources, the qualifications of all consultants for the services to be performed.

## Consulting Engineers Listings

### **George Aull, Ph.D., P.E.**

Engineering Resources Corp.  
P.O. Box 910  
Orangeburg, SC 29116, USA  
803-536-6808  
fax: 803-531-3262  
www.ercorp.net

Consultation, evaluation, planning, permitting, and design of agricultural water, waste, and wastewater systems. Investigation and development of agricultural and silvicultural land application plans for livestock wastes, biosolids, and wastewater effluents.

Initial date of registration 1980: NC, SC, GA  
Full-time; domestic.

### **Leonard L. Bashford, Ph.D., P.E.**

2487 McKelvie Road  
Seward, NE 68434, USA  
402-643-6833  
KLBLB@alltel.net

Engineering and performance evaluation services for farmstead equipment, agricultural machinery, and tractors. Expert witness testimony for product liability issues including product safety and performance.

Initial date of registration 1968: AR, NE  
Full-time; domestic.

### **Wesley F. Buchele, Ph.D., P.E.**

Buchele Associates Ltd.  
239 Parkridge Circle  
Ames, IA 50014-3695, USA  
515-292-2933

fax: 515-292-2933 (call ahead)  
wbuchele@msn.com

Inventing and teaching of creativity. Consulting services in the design and safe operation of lawn mowers, agricultural equipment, and construction machinery. Investigation and reconstruction of accidents. Will furnish relevant literature and provide expert testimony when needed.

Initial date of registration 1954: IA, CA  
Full-time; domestic and international.

# Consulting Engineers Listings

## **William A. Cook, P.E., L.S.**

Neosho Engineering & Technology  
13700 60th Road  
Parsons, KS 67357, USA  
620-421-3027

Boundary surveying, topographic surveying, construction staking, land use planning, preliminary planning for water control structures, real estate development, and community planning.

Initial date of registration 1981: KS  
Full-time; domestic.

## **Daniel L. DeHaan, P.E.**

DeHaan, Grabs & Associates, LLC  
P.O. Box 522  
Mandan, ND 58554, USA  
701-663-1116  
fax: 701-667-1356  
danddga@btinet.net  
www.dgaengineering.com

Consulting services for planning, design, construction monitoring, and permitting of agriculture production facilities. Services include site investigation, preliminary layouts, engineering surveying, facility design, regulatory permit application, construction staking and construction monitoring for swine, beef, dairy, poultry, bison, and other livestock facilities, soil and water conservation, grain handling facilities, and irrigation design.

Initial date of registration 1994: KS, OK, NE, SD, ND, IA, MT, ID  
Full-time; domestic and international.

## **Robert O. Diedrichs, P.E.**

Diedrichs & Associates, Inc.  
209 Franklin Street  
Cedar Falls, IA 50613, USA  
319-266-0549  
rdiedrichs@cfu.net

Engineering and design of products, machines, and systems. Forty years experience consulting/problem solving related to products, machine controls, manufacturing processes, and product safety. Assembly of prototypes and testing of product performance and durability. Data collection and analysis, strain gage, etc. Evaluation of concepts and preparation of cost estimates. ProE, AutoCAD, Inventor, and Solidworks.

Initial date of registration 1964: IA  
Full-time; domestic and international.

## **Terry Feldmann, P.E.**

Maurer-Stutz, Inc.  
7615 N. Harker Drive  
Peoria, IL 61615, USA  
309-693-7615  
fax: 309-693-7616  
tlfeldmann@maurerstutzinc.com

Consulting, evaluation, planning, and design services for livestock and poultry production facilities including expansion, site development, feasibility studies, renovation, ventilation and heating, environmental monitoring, product development, field research, manure handling/storage/treatment, permitting, nutrient management, odor assessments, equipment/material specifications and earthwork quantities. Expert witness testimony. Experience includes swine, dairy, turkeys, broilers and beef.

Initial date of registration 1998: IL, IN  
Full-time; domestic and international.

## **G. Jason Furrer, P.E.**

Furrer FAB Designs  
7762 E 900N  
Remington, IN 47977, USA  
219-261-4231  
fax: 219-261-2809  
jason@furrerfabdesigns.com  
www.furrerfabdesigns.com

Wastewater storage and handling design. Product development services including design, analysis, and drawing creation.

Initial date of registration 2001: IN, IL  
Full-time; domestic.

## **John A. George, P.E.**

Agricultural Engineering Associates  
1000 Promontory Drive, P.O. Box 4  
Uniontown, KS 66779, USA  
620-756-1000  
fax: 620-756-4600  
johng@agengineering.com  
www.agengineering.com

Livestock and crop research test and production facilities consulting and design including facilities for swine, beef, dairy, poultry, horses, and other non-ruminant species; waste management systems; soil and water conservation and resource development; grain and feed storage, drying, and processing facilities; irrigation system evaluation and design. Site investigation, geologic borings, computerized survey and topographic mapping.

Initial date of registration 1974: KS, IA, IN, MI, MO, CO, SD, NE, IL, OK, OH, TX, AR, ND, OR, MT, WA, NM, WY, AL  
Full-time; domestic and international.

## **Gregory G. Grabs, P.E.**

DeHaan, Grabs & Associates, LLC  
P.O. Box 522  
Mandan, ND 58554, USA  
701-663-1116  
fax: 701-667-1356  
greg@dgaengineering.com  
www.dgaengineering.com

Consulting services for all species of production livestock facility design, including site assessment and feasibility studies; topographical surveying; preliminary designs, geological investigation; site development plans; regulatory submittal and permitting; construction bidding, staking, management, inspection, and certification. Experience also includes watershed modeling, drainage, and soil and water conservation design.

Initial date of registration 1995: KS, CO, MO, WY, SD, ND, WI, NE, MN  
Full-time; domestic and international.

## **Ted A. Gribble, P.E.**

Five-G Consulting  
6355 Lamar Road  
Reno, TX 75462, USA  
903-783-9995  
fax: 903-784-2317  
ted@fiveg.com  
www.fiveg.com

Consulting and engineering for livestock facilities. Specialize in dairy and food processing waste systems. Experience worldwide in all climates.

Initial date of registration 1998: OR, NE, HI, NY, PA, TX, UT  
Full-time; domestic and international.

## **Dale M. Gumz, CSP, P.E.**

Inductive Engineering  
10805 230th Street  
Cadott, WI 54727-5406, USA  
715-289-4721  
fax: 715-289-4722

Engineering consultant for agriculture, construction, consumer products, and specialty machines. Forensic and safety services include: accident reconstruction, safety responsibilities, human factors, manufacturing processes, mechanical and electrical, occupational safety, product liability, product and machine design analysis. Experience includes a farm background and safety and design engineering since 1970, manufacturing, safety, and forensic engineering. NCEES, CSP.

Initial date of registration 1975: IL, IA, MO, WI  
Full-time; domestic and international.

## Consulting Engineers Listings

### **George W. Hicks, P.E.**

Ingenium Engineering Services  
4345 Teal Road  
Petersburg, MI 49270-9304, USA  
734-279-9345  
fax: 734-279-1788  
gwhicks@umich.edu  
www.ingeniumservices.com

Mechanical or motor vehicle engineering and consulting. Certified Traffic Accident Reconstructionist and accredited OSHA safety course instructor. Fire investigations of vehicles and equipment. Vehicle or component test and development; safety standards evaluation, vehicle testing (on-road and off), and trailer towing are a specialty. Litigation assistance; consultant or expert. Familiar with handicapped adaptive devices used on agricultural equipment.

Initial date of registration 1992: MI, OH, PA  
Full-time; domestic and international.

### **David R. Hundebly, P.Eng.**

Hundebly Consulting Ltd.  
RR 4, Box 198  
Saskatoon, SK, S7K 3J7, Canada  
306-242-6858  
fax: 306-249-1366  
hundebly@sasktel.net  
www.hundebly.com

Inventing, consulting, and forensic engineering services specializing in global design and analysis of agricultural implements and machinery (over 60 international patents). "Expert witness" regarding dry land and row crop equipment in North America, Australia, and Europe. "Prior art" research and patent litigation courtroom experience. Assistance concerning European CE certification and road traffic homologation. Actively involved in farming operation.

Initial date of registration 1993: SK (Canada)  
Full-time; domestic and international.

### **Larry R. Johnson, P.E.**

Oakwood Engineering LLC  
W7975 Oakwood Lane  
Fort Atkinson, WI 53538, USA  
920-563-3371  
fax: 920-568-1228  
lrjohnson@hughes.net

Consulting services for agricultural, construction, food processing, and outdoor power equipment. Services include product safety program development, safety evaluations of equipment and product documentation, claims management, and expert witness testimony. Litigation experience in personal injury, product performance, contracts, trade dress, patent and trademark issues. Over 30 years experience in operations and engineering management.

Initial date of registration 1974: MI, WI  
Part-time; domestic and international.

### **Jeffery C. Lorimor, Ph.D., P.E.**

Project Manager, Curry-Wille & Associates,  
Consulting Engineers, P.C.  
P.O. Box 1732  
Ames, IA 50010, USA  
515-232-9078  
fax: 515-232-9083

Consultation on confinement and open lot animal waste management systems including water quality and air quality issues, drainage and irrigation systems, soil conservation structures, soil and water conservation planning, water supply, recreational land and water development, and other agricultural environmental engineering issues.

Initial date of registration 1973: IA  
Part-time; domestic and international.

### **Joseph G. "Jake" Martin III, P.E.**

Agricultural Engineer  
6024 S.W. 89th Terrace  
Gainesville, FL 32608, USA  
352-371-4655  
fax: 352-371-1677  
jake@dairydesign.com  
www.dairydesign.com

Consulting engineering services for complete dairy facility evaluation, layout, and design. Services provided include: site selection and evaluation; preliminary facility layouts; earthwork modeling and design; dairy expansion evaluation; layout and design of milking centers, housing facilities, working areas, feed centers, and youngstock facilities. Complete waste management system evaluation, layout, and design.

Initial date of registration 1984: LA, GA, FL, KS, AZ, PR, CO, IA, VA, TX, KY, SD, OH, SC, NC  
Full-time; domestic and international.

### **Roger D. Mayhew, P.E.**

623 Kohler Drive  
West Bend, WI 53090, USA  
262-692-9219  
mayhew7@alexssa.net

Consulting in agricultural machinery, lawn and garden equipment, and machine design and testing. Also consulting in ASABE, ISO, SAE standards and patents. Specialize in PTO drive lines for machinery. Forty-three years experience in design and testing of agricultural machinery and lawn and garden equipment. Over 30 years experience in standards development for ASABE, ISO, SAE, and OPEI.

Initial date of registration 1994: WI  
Part-time; domestic.

### **Stewart W. Melvin, Ph.D., P.E.**

Project Manager, Curry-Wille & Associates,  
Consulting Engineers, P.C.  
P.O. Box 1732  
Ames, IA 50010, USA  
515-232-9078  
fax: 515-232-9083

Consultation on confinement and open lot animal waste management systems including water quality and air quality issues, drainage and irrigation systems, soil conservation structures, soil and water conservation planning, water supply, recreational land and water development, and other agricultural environmental engineering issues.

Initial date of registration 1969: IA  
Part-time; domestic and international.

# Consulting Engineers Listings

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## James M. Miller, Ph.D., P.E.

Miller Engineering Associates  
2392 Fuller Court  
Ann Arbor, MI 48105, USA  
734-662-6822  
fax: 734-747-9712  
mail@millerengineering.com  
www.millerengineering.com

Hay, crop, and grain harvesting and storage; dairy and food processing safety; tractor, implement, and harvester safety; farm accident reconstruction; agricultural chemical safety; pesticide use, compliance, disposal, and contamination; equine and bovine accidents; roadway/highway accident reconstruction; slips, falls — premise, vehicle, ladder; design of user manuals, labels, and warnings; OSHA compliance. Initial date of registration: MI, ID, OR Full-time; domestic.

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## Richard L. Parish, P.E.

Richard L. Parish, PE, LLC  
21135 Highway 16  
Amite, LA 70422, USA  
985-543-4125  
fax: 985-748-3813  
rlp70422@aol.com

Forensic engineering: patents and product safety/performance/evaluation involving agricultural, grounds maintenance, and lawn/garden equipment. Experience with a wide range of agricultural and horticultural equipment. Past cases in patents, personal injury, wrongful death, product performance, advertising. Thirty-seven years experience in engineering, engineering management, research, teaching, extension, and consulting. Initial date of registration 1973: OH Part-time; domestic and international.

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## Sybren Y. Reitsma, Ph.D., P.E.

Lacto-Tech Service  
1025 Esdras Place  
Windsor, ON N8S 2N1, Canada  
519-974-9193  
fax: 519-974-9434  
lacto@sympatico.ca

Machine milking investigations relating design, installation, operation and management to loss of milk and cows. Measurement and analysis of various types and designs of milking systems. Assistance in product liability and safety. Research experience at organizations in several countries and practical experience. Initial date of registration 1982: ON (Canada) Part-time; domestic and international.

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## Rodney Rinehart, P.E.

Project Manager, Curry-Wille & Associates,  
Consulting Engineers, P.C.  
P.O. Box 1732  
Ames, IA 50010, USA  
515-232-9078  
fax: 515-232-9083  
rrinehart@currywille.com

Consultation on agricultural experiment stations, commercial and private facilities housing livestock and poultry, and research facilities. Services include designs, plans, and specifications for the general, structural, mechanical, and electrical portions of the projects, including site development, utilities, and waste handling.

Initial date of registration 1997: IA, IA Full-time; domestic and international.

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## Timothy R. Royer, P.E.

Timber Tech Engineering, Inc.  
22 Denver Road, Suite B  
Denver, PA 17517 USA  
717-335-2750  
fax: 717-335-2753  
trr@timbertecheng.com  
www.timbertecheng.com

Consulting engineering and design services for timber frame and light wood constructed buildings. Design of manure containment structures and agricultural engineering. Concrete, masonry, and steel design. Also, building code review and computer aided drafting services.

Initial date of registration 1989: PA, CT, DE, IN, IA, MA, MI, MN, MS, MD, NJ, NY, NC, OH, UT, VA, WV Full-time; domestic.

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## Lawson M. "Mac" Safley Jr., Ph.D., P.E.

Agri-Waste Technology, Inc.  
5400 Etta Burke Court  
Raleigh, NC 27606, USA  
919-859-0669  
fax: 919-233-1970  
agriwaste2@aol.com  
www.agriwaste.com

Consulting, planning, and design of waste management plans for poultry and livestock complexes, industries, and municipalities including ongoing records management and assistance with regulatory compliance. Registered P.E. in 35 states and Saskatchewan, Canada.

Initial date of registration 1981: TN Full-time; domestic and international.

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## Ralph Shirley, P.E.

Transamerican Consultant Engineers Inc.  
P.O. Box 3033  
Thousand Oaks, CA 91359 USA  
818-889-9986  
fax: 818-889-9505  
tce@transameng.com  
www.transameng.com

Engineering consultant for agricultural, construction, lawn and garden, and specialty machines. Accident reconstruction, biomechanical analysis, and product liability investigation. More than 30 years experience in design and development of agricultural equipment and controls. Investigations include PTO entanglement, bypass start, rollover, brake and park lock controls, vehicle collisions. On- and off-highway accident investigation. NAFL certified fire investigator.

Initial date of registration 1979: IA, CA Full-time; domestic and international.

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## Robert B. Skromme, P.E.

7440 State Route 703  
Celina, OH 45822-2836, USA  
419-586-1227  
fax: 419-586-6144

Consultant and expert witness in patent infringement, product liability, product performance, and safety management. Technical expert support on agricultural, industrial and outdoor products; standards and regulations. More than 40 years experience.

Initial date of registration 1968: WI Full-time; domestic and international.

## Consulting Engineers Listings

### **Russ Stammer, P.E.**

SEH Inc.  
3240 East River Road NE  
Suite 102  
Rochester, MN 55906-3422, USA  
507-529-7200  
fax: 507-529-7201  
rstammer@sehinc.com  
www.sehinc.com

Consulting engineering services for agricultural waste handling and storage, manure and nutrient management, permitting, site design, drainage, food processing waste and wastewater treatment, egg production wastewater treatment, odor control, biofiltration, planning, design, construction observation, construction management, spray irrigation design, and structure design.

Initial date of registration 1986: IA, MN, NE  
Full-time; domestic and international.

### **Andrew W. Wedel, P.E.**

McLanahan Corp.  
200 Wall Street  
Hollidaysburg, PA 16648, USA  
814-695-9807  
fax: 814-695-6684  
awedel@mclanahan.com  
www.mclanahan.com

Design of sand-laden manure conveyance, separation and storage systems. Services also include: procurement of grant funding; design and implementation of best management practices related to nutrient management plans; and laboratory analysis of bedding sand.

Initial date of registration 1999: PA, DE, MI  
Full-time; domestic.

### **Jerry L. Wille, P.E.**

President, Curry-Wille & Associates,  
Consulting Engineers, P.C.  
P.O. Box 1732  
Ames, IA 50010, USA  
515-232-9078  
fax: 515-232-9083  
jwille@currywille.com

Consultation on agricultural experiment stations, commercial and private facilities housing livestock and poultry or storing grain and seed. Services include designs, plans, and specifications for the general, structural, mechanical, and electrical portions of the projects, including site development, utilities, and waste handling.

Initial date of registration 1977: IA, OK, IL, KS, OH, ID, CO, MO, MN, MS, WI, NC, KY, NE, PA, SD, IN, MI, NJ, AR, MD, TN, AL, GA

Full-time; domestic and international.

### **Donald W. Wright**

Microanalytics (A MOCON Company)  
2011 A Lamar Drive  
Round Rock, TX 78664, USA  
512-218-9873  
fax: 512-218-9875  
don.wright@mdgc.com  
www.mdgc.com

Odor analysis, consulting and instrument integration services utilizing optimized GC-olfactometry and GC-MS technologies. Malodor investigation experience base includes: environmental, food, beverage, and consumer products. Specializing in rapid response to crisis driven consumer complaint issues; detecting, isolating, identifying, and tracking primary odorant compounds within an environment, product, or process.

Full-time; domestic and international.

### **L. Frank Young, P.E.**

Agricultural Engineering Associates  
1000 Promontory Drive, P.O. Box 4  
Uniontown, KS 66779, USA  
620-756-1000  
fax: 620-756-4600  
frank@agengineering.com  
www.agengineering.com

Livestock and crop research test and production facilities consulting and design including facilities for swine, beef, dairy, poultry, horses, and other non-ruminant species; waste management systems; soil and water conservation and resource development; grain and feed storage, drying, and processing facilities; irrigation system evaluation and design. Site investigation, geologic borings, computerized survey, and topographic mapping.

Initial date of registration 1980: KS  
Full-time; domestic and international.

### **Dale Wm. Zimmerman, P.E.**

President, Mock, Roos & Associates, Inc.  
5720 Corporate Way  
West Palm Beach, FL 33407, USA  
561-683-3113  
fax: 561-478-7248

Engineering, surveying, planning, including reports, permitting, design, and construction phase services for agriculture; land development; public works; water control districts; stormwater management; irrigation; pump stations, potable water and wastewater systems and treatment; water wells; environmental assessment; best management practices; waste management; water quality monitoring; mapping, CAD, GIS, and GPS.

Initial date of registration 1969: FL  
Full-time; domestic and international.

# Professional Service Card Listings

**Miller Engineering**

Idaho  
Boise-Twin Falls  
208-326-4729  
www.millerengineering.com  
e-mail: jmiller@millerengineering.com

Michigan  
Ann Arbor  
734-662-6822

**Agricultural and Mechanical Engineering**  
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**Ralph E. Shirley**  
M.S. ENG., P.E.

**Accident Reconstruction  
Biomechanical Engineering  
Failure Analysis  
Product Liability**

Ph. (818) 889-9986  
Fax (818) 889-9505  
tce@transameng.com

P.O. Box 3033, Thousand Oaks, California 91359



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CONSULTING ENGINEERS P.C.**

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Fertilizer/Pesticide Containment Design  
Agricultural Research Facilities

AMES, IA  
515-232-9078  
WWW.CURRYWILLE.COM

Lakeville, MN  
612-469-1277

**Richard W. Job and Associates, LLC  
Rich Job P.E.**

770 Reese Street Liberty, MO 64068  
Phone: (816) 415-8387; Mobil: (816) 223-5927  
Email: rich.w.job@sbcglobal.net

Consultant:  
Managing the product design and development process; product safety evaluation process; standards application and compliance  
Member: ASABE, SAE

**Timothy R. Royer, P.E.  
Timber Tech Engineering, Inc.**

Consulting engineering and design services for timber frame and light wood constructed buildings. Design of manure containment structures and agricultural engineering. Concrete, masonry, and steel design. Also, building code review and computer aided drafting services.

22 Denver Road, Suite B, Denver, PA 17517  
Phone: 717-335-2750 Fax: 717-335-2753  
Email: trr@timbertecheng.com

**DIEDRICHS & ASSOCIATES, Inc.**

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209 Franklin St. Cedar Falls, IA 50613  
www.diedrichsandassociates.com



**Agri-Waste Technology, Inc.**  
"Concepts in  
Agricultural Byproduct Utilization"

L.M. (Mac) Safley, Jr., Ph.D., P.E.  
President

5400 Etta Burke Court  
Raleigh, North Carolina 27606  
Phone: (919) 859-0669 Email: agriwaste2@aol.com  
Fax: (919) 233-1970 **Consulting Engineering**

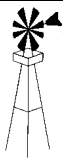


D. Joe Gribble, A.E.  
Donald L. Gribble, P.E.  
Ted A. Gribble, P.E.

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- Dairy Facilities
- Waste Management Systems
- Livestock Research & Test Facilities
- Soil & Water Conservation Design & Resource Development
- Irrigation Systems Evaluation & Design
- Geologic & Site Investigations
- Soils & Concrete Testing Lab

**ROBERT B. SKROMME, P.E.  
Consulting Engineer**

7440 State Route 703  
Celina, Ohio 45822-2836  
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Fax: (419) 586-6144

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- Patent Infringement
- Product Performance

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Environmental Assessment • Best Management Practices  
Farm Structures • Pump Stations • Agri-Businesses & Farm Plans • Permitting and Design • Water Quality Monitoring • Mapping, CAD & GIS

Dale Wm. Zimmerman, P.E.  
President and Managing Principal  
5720 Corporate Way • West Palm Beach, Florida 33407  
Phone (561) 683-3113 ext. 214 • FAX (561) 478-7248

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- Mechanical & Electrical
- Safety Responsibilities
- Product & Machine Design

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318-255-1832  
Fax: 318-255-7572  
sales@irrigation-mart.com

we SAVVY Irrigation

Jackie Robbins, CEO, CID, Ph.D., Agricultural Engineer, P.E.  
Jay Robbins, Agricultural Engineer, EI  
Robin Robbins, Agronomist



**DeHaan, Grabs & Associates, LLC**  
Consulting Engineers  
PO Box 522, Mandan, ND 58554  
(701) 663-1116, FAX: (701) 667-1356  
www.dgaengineering.com

DANIEL L. DEHAAN, P.E. GREGORY G. GRABS, P.E.

- Dairy, Bison, Beef, Swine and Other Production Livestock Facility Layout, Design, Regulatory Permitting and Construction Development
- Best Management Practices, Waste Management Plans and Pollution Prevention Plans
- Environmental Audits and Assessments

# WHAT A CONSULTING ENGINEER CAN DO FOR YOU

Because of their broad educational background, consulting agricultural engineers are a source of information on a wide variety of topics and can provide help with diverse technical problems. The design and management services agricultural engineers provide can be invaluable to small businesses without their own engineering departments, to agricultural producers and similar enterprises, and to large businesses or governmental agencies that want to supplement their in-house engineering departments. Consultants also can provide service to lending institutions, law firms, local units of government and planning boards, or to individuals that need expert witnesses or technical analysis.

## What is a Consulting Engineer?

A consulting engineer is an independent contractor retained to work on a project-by-project basis. A consulting engineer may work alone or as a member of a consulting firm. Consulting engineers can provide a high level of technical expertise, direct personal service, and highly technical advice. Practicing consulting engineers must be licensed professional engineers in their state of residence and must qualify to obtain licensure in other states where they practice or provide services.

## What Expertise Does a Consulting Agricultural Engineer Have?

Agricultural engineers have a diverse educational background that makes them knowledgeable about many subjects; additionally, they usually focus their expertise on one of the following areas:

- Aquaculture
- Biological Applications
- Energy
- Environmental Quality
- Food and Food Processing
- Forestry
- Information and Electrical Technologies
- Power and Machinery
- Safety
- Soil and Water Resources
- Structures and Environment

For more information, please visit [www.asabe.org/membership/consulting.html](http://www.asabe.org/membership/consulting.html).

# CODE OF ETHICS OF ENGINEERS

## THE FUNDAMENTAL PRINCIPLES

Engineers uphold and advance the integrity, honor and dignity of the engineering profession by:

- I. using their knowledge and skill for the enhancement of human welfare;
- II. being honest and impartial, and serving with fidelity the public, their employers and clients;
- III. striving to increase the competence and prestige of the engineering profession; and
- IV. supporting the professional and technical societies of their disciplines.

## THE FUNDAMENTAL CANONS

1. Engineers shall hold paramount the safety, health and welfare of the public in the performance of their professional duties.
2. Engineers shall perform services only in the areas of their competence.
3. Engineers shall issue public statements only in an objective and truthful manner.
4. Engineers shall act in professional matters for each employer or client as faithful agents or trustees, and shall avoid conflicts of interest.
5. Engineers shall build their professional reputation on the merit of their services and shall not compete unfairly with others.
6. Engineers shall act in such a manner as to uphold and enhance the honor, integrity and dignity of the profession.
7. Engineers shall continue their professional development throughout their careers and shall provide opportunities for the professional development of those engineers under their supervision.

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