

Biotechnology Mixer IX

September 20, 2005

Company Profiles

***Please select 3-5 companies that you would like to meet with during the one-on-one meetings. Email your selections to Lisa Lorenzen at llorenze@iastate.edu by close of business on September 16, 2005.**

Abbott & Associates

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**Abbott &
Associates**

Abbott & Associates is a consulting company serving clients ranging from start-up businesses to Fortune 500 companies. Areas of expertise include business development, technology assessment and commercialization, market analysis and intellectual property management. In addition, A & A has extensive experience in bio-based products and energy, including fuel ethanol production and marketing.

Advanced Analytical Technologies, Inc.

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Advanced Analytical Technologies, Inc. (Advanced Analytical) was founded in 1998 in Ames, IA with the mission of bringing new technology to market. The first product, a

rapid bacteria detector (RBD 2100) was developed in collaboration with a major U.S. beverage company. This product, released to the general public in 1999 and protected under Patent No. US 6,473,171 B1, provides low-level detection and quantitation of bacteria in a variety of matrices. The RBD instrument is used for food, environmental, pharmaceutical and clinical applications and detection limits of 10CFU/ml are routinely obtained in run times of 30 minutes or less. A fully-automated version of this instrument was released in 2003 along with test kits for *Listeria*, *E. coli*, *Salmonella*, and Total Viable Organisms.

The steady advancement of Advanced Analytical is largely attributed to collaborations with world-class research institutions and the backing of major corporations and government entities. Collaborations to date include NASA, EPA, USGS, USDA, SCCWRP (Southern California Coastal Water Research Project), Rockefeller University, and the Cleveland Clinic Foundation.

Alliant Energy

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**Alliant
Energy**

Alliant Energy was created April 21, 1998, as a result of the merger of IES Industries Inc., Interstate Power Co. and WPL Holdings, Inc.

The company's worldwide headquarters is in Madison, Wisconsin. Business unit operating headquarters are located in Madison, Wisconsin, Cedar Rapids and Dubuque, Iowa.

Alliant Energy and its utility subsidiaries IES Utilities Inc., Interstate Power Co., Wisconsin Power and Light Co. and South Beloit Water, Gas and Electric Co. provide electric, natural gas, water and steam energy to more than one million customers in Iowa, Illinois, Minnesota and Wisconsin. Through its nonregulated subsidiaries, Alliant Energy provides a wide array of products and services such as affordable housing, energy planning and procurement, energy trading, rail and barge transportation, and environmental consulting. Alliant Energy Resources companies operate nationally as well as internationally.

At year-end 2004, the companies that merged to form Alliant Energy had revenues of \$2.9 billion and income from continuing operations of \$211 million.

Becker Underwood

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Becker Underwood creates and produces specialty bio-agronomic and colorant products for turf management, agriculture, seed treatment, landscape wood mulch, aquaculture, vegetation management, forestry, structural pest control and many other industries. Whatever the challenge, we are constantly seeking innovative answers, and turning customer challenges into opportunities.

Becker Underwood is at the global forefront of Rhizobium (inoculant) science, production, and marketing. Science leads our research, creating better products and technologies which translate to crop value for today's demanding growers.

The world demand for crop and vegetable proteins is increasing. Rhizobium inoculants, containing naturally occurring, beneficial bacteria, are an essential input to produce legume crops. We produce liquid, peat based and granular formulations of Rhizobium inoculants.

Bio-Consultant

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Bio-Research Products, Inc.

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1. Bio-Research Products, Inc. specializes in the isolation, purification and characterization of enzymes and proteins. The company is recognized as the

- world's leading producer of wheat germ phosphoenolpyruvate carboxylase (PEPC) and supplies this as well as other enzymes to diagnostic kit makers. The company is also involved in biomedical contract manufacturing of finished goods as well as raw material production.
2. A recent component we produce is an enzyme mixture, which facilitates an automated serum homocysteine test to be marketed by Beckman and Axis-Shield.
 3. Bio-Research Products is also interested in producing enzymes, proteins, and diagnostic assays and other goods by request for industry, governments or academia.
 4. ISO 9001-2000 Certified.

CombiSep, Inc.

Shelley Coldiron, President

Mark McDonald

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CombiSep's corporate objectives are to pipeline technologies from academic and research institutions for introduction in the global markets. CombiSep's core technology, absorbance-based multiplexed capillary electrophoresis (MCE), with simultaneous sample throughput of 96 parallel analysis is unique and enabling for the expressed demand by the pharmaceutical and biotech industries for increased throughput of product screening, characterization and identification. ***There is no product currently on the market with comparable capabilities.*** We provide tools for early stage product characterization and late stage product analysis. Also, supporting reagent packages are provided for targeted applications, creating an on-going consumables revenue stream with each instrument.

Our product line has application in the drug development, biotech, fine chemicals, agriculture, clinical testing, genetics, proteomics, and metabolomics market segments. Applications that we are currently developing for these markets include: drug candidate characterization, protein analysis, peptide mapping, DNA sizing, quality control for amino acids, analysis of oligonucleotide purity, and high throughput screening (HTS) of small molecules.

The Company is generating revenues from instrument, consumable and software sales and developing sales leads with major pharmaceutical companies, ag-biotech firms, leading research organizations, and major manufacturers of oligonucleotides.

Diamond V Mills, Inc.

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Natural Nutritional Value.

Diamond V ® is recognized throughout the animal nutrition field as an innovative, scientifically-motivated feed ingredient supplier. We've been providing natural, research-proven yeast culture products for 58 years and are constantly looking for practical solutions to the nutritional problems encountered in modern animal agriculture. Diamond V ® provides yeast fermentation products to animal feed companies, the dairy industry, beef cattle feedlots and integrated swine and poultry operations world-wide, as well as a gluconeogenic supplement for ruminants. We also produce high-selenium yeast for human and animal diets.

Eastern Iowa Community College District / NewVentures Initiative

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The NewVentures Initiative is a new regional not-for-profit organization headquartered in Davenport, Iowa, that facilitates the start-up of new technology businesses in Iowa and Illinois. Its business planning model and program of work will assist clients in assessing the viability of their technologies, performing market research, creating management plans, developing financial proformas, and preparing companies to present to angel or venture capital sources. Current clients' locations range from Des Moines to Chicago.

A major component of The NewVentures Initiative is The NewVentures Center, a state-of-the-art business accelerator where new business ventures can connect with resources to commercialize their products and services. Located in downtown Davenport, the 20,000 square foot facility includes class "A" office space as well as areas that can be built to suit laboratory or manufacturing needs.

The NewVentures AgTech Initiative is a program of work funded by a prestigious National Science Foundation grant received by Eastern Iowa Community College District (EICCD) in Davenport, Iowa. Through The NewVentures AgTech Initiative, professional EICCD staff is investigating emerging technologies to evaluate their potential for

commercialization within regional business and industry. The sources of these technologies are universities, national laboratories, private research institutions, early stage high-tech companies, and industry spin-offs.

The NewVentures AgTech Initiative and The NewVentures Initiative partner with and encourage high-tech entrepreneurs and start-up companies. The NewVentures AgTech Initiative concentrates on creating linkages between technologies and companies or entrepreneurs interested in commercializing new technologies, while The NewVentures Initiative focuses on helping clients to present their business models to the investment community. The end goal is the start-up and growth of new high-tech companies that will remain and thrive in our region.

Fisher Scientific

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Fisher Scientific

Fisher Scientific International Inc. is a leading provider of products and services to the scientific community. Fisher facilitates discovery by supplying researchers and clinicians in labs around the world with the tools they need. We serve pharmaceutical and biotech companies; colleges and universities; medical-research institutions; hospitals; reference, quality-control, process-control and R&D labs in various industries; as well as governments and first responders. From biochemicals, cell-culture media and proprietary RNAi technology to rapid-diagnostic tests, safety products and other consumable supplies, Fisher provides more than 600,000 products and services. This broad offering, combined with Fisher's globally integrated supply chain and unmatched sales and marketing presence, helps make our 350,000 customers more efficient and effective at what they do.

Grow Greater Burlington

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Grow Greater Burlington offers a unique location opportunity for value added agriculture and biotechnology companies. It is immediately adjacent to a 19,000-acre government facility offering, tillable land, multiple access roads and railroad spur, in a

secure and segregated environment. Big River Resources Ethanol Plant, located in Burlington, also provides potential collaborative business opportunities.

Located on the Mississippi River and the intersection of U.S. highways 34 and 61, Greater Burlington provides many transportation opportunities including the Burlington Northern Santa Fe Railway mainline and Southeast Iowa Regional Airport.

Grow Greater Burlington is committed to continuously improving the business climate of Des Moines County and can offer many incentives for new businesses interested in locating to the area including;

- * Burlington Area Development Fund
- * Enterprise Zone
- * Tax Increment Financing
- * Tax Abatement
- * Sales Tax Economic Development Fund
- * Revolving Loan Fund
- * Iowa New Jobs Training Program
- * Grow Iowa Values Fund
- * Other State of Iowa Programs

HyClone Laboratories

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HyClone Laboratories is a premier supplier of cell culture media, sera, bioprocess fluids and delivery systems. HyClone's home offices are in Logan, Utah with facilities in England, Belgium, China, Australia, New Zealand and Central America. HyClone manufactures all of its materials under c-GMP ISO 9001/2001 conditions and meets all FDA, USDA and EMEA regulations for our industry.

Integrated DNA Technologies, Inc.

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Since 1987, Integrated DNA Technologies has been a major force in advancing biotechnology research both as a leading supplier of custom oligonucleotides and developer of innovative new biotechnologies. IDT routinely fulfills large-volume orders while maintaining stringent quality control. In line with IDT's primary mission of advanced research in DNA-based technologies, IDT's synthesis group combines expertise in chemistry, molecular biology and engineering to produce and purify complex modified oligonucleotides, such as those required for Antisense Gene Knockout, Expression Profiling, SNP Detection, Microbial Identification and other novel applications. This expertise has led to research and development collaborations with many leading biotechnology companies. IDT also offers capillary electrophoresis routinely on complex specialty synthesis items, Maldi-Tof mass spectrometry and specially formulated synthesis reagents. Our staff includes experts in molecular biology, oligonucleotide design, sequencing, mutagenesis, PCR and related research who are available for consultation. The staff and scientists at IDT are dedicated to ensure the satisfaction of our customers. Over 40,000 customers worldwide trust IDT for dependable products of the highest quality.

Iowa BioDevelopment

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**Iowa
BioDevelopment**

Iowa BioDevelopment, a division of Indian Hills Community College, is a continuing education program for biotech industry located in Eddyville, IA at the newly constructed Iowa Bioprocess Training Center. The 12,000 ft.2 training facility contains a

fermentation pilot plant, a virtual reality fermentation center, process control training modules, classrooms, and IHCC's two year bioprocess technology program.

The pilot plant contains 150 and 500 L fermenters and standard separation and analytical equipment, such as HPLC, UV-Vis, and GC. The plant can be used by smaller life sciences companies for R&D or optimization purposes. Our fully trained staff is available for assistance, and our students can be utilized as a labor source for large projects. This is a mutually beneficial relationship, as the company benefits from the service provided and the students get to learn a real world process.

The virtual reality center allows instructors and industry to rapidly determine optimal conditions for fermentation. A 7-10 day fermentation can be modeled in 10 seconds, saving valuable time for industry and providing a valuable learning experience for students. Up to 5 fermentation variables can be modified, providing a valid simulation. The virtual reality system can be transported to conferences and schools to increase knowledge of biotechnology processes and career opportunities.

The process control modules mimic the actual conditions of a large bioprocessing plant, giving students hands-on, real life problem solving skills. This preparation has proven to be worthwhile, as 95+% of the graduates from our Associate of Science program are employed in local biotechnology industries.

Iowa BioDevelopment is proud to be designated as a National Center for Excellence for Biotechnology. As a nationally recognized Center, we provide training in many areas of life sciences, focusing on renewable fuels such as ethanol and biodiesel.

Iowa Biotechnology Association

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Iowa Biotechnology Association

The Iowa Biotechnology Association (IBA) was formed in 1994 to advance opportunities in Iowa for the improvement of the human environmental and economic well-being through the development and application of value-added technologies in the life sciences. Working cooperatively, the members hope to enhance the ability to commercialize new technologies in a timely manner and reduce the lead time for deployment. Activities of the association are designed to give companies doing business in Iowa an edge in delivering timely new products to consumers through the sharing of ideas regarding the transfer and development of technologies.

Iowa Cooperative

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Iowa Cooperative

PMP Field Production Services

Clients include world leaders in the development of novel protein products in grains, including corn, safflower, tobacco and barley. From planting and harvesting to storing and transporting, all equipment is dedicated exclusively to pharmaceutical corn production. Horan Bros. have developed, tested and proved the effectiveness of the industry's most comprehensive Standard Operating Procedures for all aspects of pharmaceutical crop management

Iowa Department of Economic Development

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The mission of the Iowa Department of Economic Development is to work with businesses and communities to continually improve the economic well-being and quality of life for Iowans. Whether your company is a start-up or one of the "Fortune 500", Iowa offers an array of financial investment programs specifically designed to promote your growth and profitability while creating quality job opportunities for Iowans. The International Office within IDED offers individualized marketing assistance and facilitates Iowa companies entry and expansion into a global marketplace. One-on-one export counseling is readily available from the Des Moines office staff who combined have over 100 years international experience (including private-sector), providing Iowa businesses with invaluable resources to identify such issues as product suitability, best markets, appropriate trade shows, qualified contacts, distribution channels, trade barriers, export requirements, logistics, documentation and so on.

Iowa State University

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**IOWA STATE
UNIVERSITY**

There are many areas of research where Iowa State is truly world-class and where we're among the national and international leaders. One example is the plant sciences, through the programs in our Plant Sciences Institute.

Another area is animal sciences. This is an area of historical Iowa State strength, and we were recently recognized as being second in the nation in serving the meat and poultry industry. We intend to strengthen this area even further, with the new Center for Integrated Animal Genomics that was recently established.

Iowa State also has a long history of strength in the materials sciences, through the programs in our College of Engineering, the Ames Laboratory, the Institute for Physical Research and Technology, and our physical science departments.

ISU Agricultural and Biosystems Engineering

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**IOWA STATE
UNIVERSITY**

Atmospheric Air Quality Laboratory at the Department of Agricultural and Biosystems Engineering is situated at the National Swine Research and Information Center at the Iowa State University campus in Ames. The lab serves as a focal point for research and training in the area of air quality engineering and livestock odor. The lab is quipped with several unique analytical instruments including: multidimensional GC-MS-Olfactometry system, standard gas generator system, and a manure additives testing pilot plant.

Research focuses on: solving livestock odor problems, solving off-odor and aroma problems, quality assurance and quality control applications, detection and identification of trace organic compounds, detection of plan/insect volatiles.

ISU Center for Designer Crops

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**IOWA STATE
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The Center for Designer Crops is undertaking fundamental research that allows the design of crops specifically suited to their end use. Such uses include improved human and animal nutrition, novel and environmentally friendly industrial feedstocks and production of medicinal chemicals. The center combines existing strengths in fundamental and applied plant biology at Iowa State with newly developing technologies and participates in leading-edge studies of the mechanisms that control the composition of plants. By acquiring a fundamental understanding of plant metabolism, it will be possible to make predictable changes in the quantity and quality of plant constituents; that is, it will be possible to engineer desired changes in the plant's metabolism.

ISU Center for Integrated Animal Genomics

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**IOWA STATE
UNIVERSITY**

Advances in genome sequencing and molecular genetics now enable scientists to explore complex biological problems using an integrated systems-wide genomics approach. The Center for Integrated Animal Genomics (CIAG) at Iowa State University is dedicated to developing state of the art techniques in computational, molecular and cell biology to improve animal and human health. CIAG, one of the new Presidential initiatives at ISU, builds on the strengths of world-class programs in animal and microbial genetics, bioinformatics, biotechnology, and the life sciences. CIAG goals will enhance the activities and breath of research at Iowa State University and increase basic and translational research and foster economic development and growth in Iowa's biotechnology industries. Potential outcomes include: genetic improvement of livestock species, development of designer animals for specialized animal products to improve human health, improvement of food safety and reduction of use of antibiotics, development of safe and effective vaccines and anti-microbial agents, reduction of possible bioterrorism threats through the food chain, increase harmony of animal agriculture with Iowa's natural resources, preparation of future scientists for the challenges and opportunities in emerging areas of animal biology.

ISU Dept. of Chemical and Biological Engineering

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**IOWA STATE
UNIVERSITY**

Our laboratory works on separation methods for bioprocessing. We address product recovery from fermentation and plant materials. The methods we use include membrane processing, precipitation, crystallization, chromatography, expanded bed adsorption and aqueous phase partitioning. Most of our work has been with protein recovery, though we have done work with organic acids in the past and are currently studying aqueous extraction of soy oil. We collaborate with several groups in the Center for Crops Utilization Research.

ISU Dept. of Entomology

Joel Coats, Professor

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**IOWA STATE
UNIVERSITY**

I am Professor of Entomology & Toxicology in the Department of Entomology. My laboratory conducts research on natural insecticides and natural insect repellents. We work on isolation of individual active ingredients, screening extracts and individual active ingredients against insects - flies, cockroaches, mosquitoes, ticks, corn borers, rootworms, etc. We also work on optimization of active ingredient structures by developing quantitative structure-activity relationships and through synthesis of derivatives and analogs. Our research also includes investigations on the modes of action of the insecticides and repellents. We also routinely conduct experiments on metabolism and environmental fate (persistence, biodegradability, and mobility) of these chemicals in soil, water, air, animals, plants, and microbes. Development of analytical methods for residue analysis and radiotracer capabilities aid in our pesticide/repellent research projects.

ISU Dept. of Food Science and Human Nutrition

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**IOWA STATE
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Research in Dr. Brehm-Stecher's laboratory focuses on two basic areas: rapid detection of pathogenic microorganisms and the development of new antimicrobial intervention strategies. Technologies and platforms used for rapid detection of microbes include fluorescence in situ hybridization (FISH) using both DNA and peptide nucleic acid (PNA) probes, flow cytometry and real-time PCR. Future work will focus on emerging technologies such as molecular imprinting and label free biosensor platforms. A major focus of the antimicrobial work is the development of multicomponent formulations containing novel antimicrobial potentiators. These potentiating systems have the capacity to enhance the activities and extend the spectra of a wide variety of antimicrobials and antibiotics, allowing the development of active and persistent antimicrobial treatments useful in applications ranging from food safety to health care. Interaction and collaboration with companies seeking new applications for their technologies is a key interest.

ISU IPRT Company Assistance

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**IOWA STATE
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IPRT Company Assistance initiates and manages collaborative technical, research projects involving Iowa companies working with ISU faculty and researchers. IPRT works across the entire university system and can access expertise from the colleges of agriculture, veterinary medicine, and engineering.

IPRT works with start-ups as well as Fortune 500 companies and can access cost sharing funds to help pay for collaborative research projects with Iowa companies. Projects typically are focused on technical problem solving, process improvement, and new technology development.

ISU - Iowa Grain Quality Initiative (IGQI)

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**IOWA STATE
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The Iowa Grain Quality Initiative (IGQI) is a cutting edge grain quality research and information program. The interdisciplinary project performs the "rapid response function" at ISU for the grain industry. Through diverse expertise of affiliated faculty and the use of information technology, the project has addressed grain production and processing topics quickly, giving producers and agribusinesses the information needed to make business decisions. Challenges related to genetically modified grains have accelerated the use of alternative delivery systems.

Rapid response issues IGQI addressed over the past years included: genetically modified grains (StarLink™ corn, Roundup Ready® corn, and international markets); frost damage, discoloration, and diseases in corn and soybeans ; and a major farmers cooperative bankruptcy.

ISU Plant Sciences Institute

Cheryl Kamman

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The Plant Sciences Institute at Iowa State University seeks commercial partners and/or affiliates for its Public Private Partnership (3P) Program in the newly opened Roy J. Carver Co-Laboratory. The Co-Laboratory is intended to bring scientists together from the public and private sector to conduct research in a university research laboratory setting. The 3P Program is an activity of the Innovations Development Facility within the Co-Laboratory that also includes business incubators for start-up companies involving Iowa State University faculty, staff or students. The 3P Program will entertain commercial partnerships at the affiliate or research partnership level. Affiliate relationships provide opportunities for technical exchange, research collaborations, access to special Institute programs and opportunities for employment of ISU students. Research partnerships offer on-site presence for scientists from business or industry in the Co-Laboratory for collaborative research. The Co-Laboratory is an exciting research

environment with top-flight academic biotechnology research laboratories and state-of-the-art genomics and proteomics facilities in the building.

ISU Research Foundation / Office of Intellectual Property and Technology Transfer

Ken Kirkland, Executive Director
Nita Lovejoy, Associate Director
Mary Kleis, Program Manager
Todd Headley, Licensing Associate
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**IOWA STATE
UNIVERSITY**

The Office of Intellectual Property and Technology Transfer (OIPTT) and the Iowa State University Research Foundation, Inc. (ISURF), a non-profit Iowa corporation, work together to enhance and facilitate the transfer of the inventions, copyrights, trademarks, tangible research materials, and other intellectual property developed at Iowa State University for the public good. The majority of these innovations, or "technologies," are an outgrowth of the research activity of the university's researchers. OIPTT and ISURF work closely with the university researchers in this activity, which is commonly referred to as technology transfer.

ISURF was established in 1938 to manage intellectual property arising from research conducted at the University. According to University policies, intellectual property is assigned to ISURF by inventors or creators who are employees or students of the University. OIPTT was formed in 1990 to provide support services to the university community in matters related to intellectual property, to be the first contact related to new innovations, and to market the innovations and negotiate the agreements for transfer of the technology for ISURF's signature.

Kemin Industries, Inc.

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Innovation and adaptability have been key to Kemin Industries' exceptional growth and transformation. From a small entrepreneurial effort, the Kemin organization has grown into a global company employing over 700 people worldwide, with annual sales in excess of \$160 Million. It remains a family company with the second generation of the Nelson family at the helm and positioned at different levels throughout the company.

While Kemin Industries is still headquartered in Des Moines, Iowa, we now operate in over 60 countries, with manufacturing facilities in China, Singapore, Thailand, India, Belgium, Brazil and the United States.

Midwest Bio Services, LLC

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Midwest Bio Services, LLC is a new company dedicated to providing reliable and affordable services in the areas of protein expression, protein purification and analytical characterization of proteins and peptides.

Currently we offer protein identification by tandem mass spectrometry. We utilize nano-LC/MS/MS technique, which is one of the most sensitive and reliable methods available now. It allows identification of proteins at low fmol levels and enables identification of numerous proteins in complex protein mixtures.

We plan to open our protein expression and purification facility in 2005.

Millipore, Corp.

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Phone: 816-868-6696**FAX:****Web:** <http://www.millipore.com>**E-mail:** troy_murra@millipore.com**Millipore, Corp.**

Millipore is a multi-national corporation leading in the fields of protein separation and filtration. Specializing in the needs of cGMP compliant processes. We provide engineered validatable normal flow, as well as tangential flow filtration systems. Expertise extends into chromatography columns and support equipment as well. We provide technical and analytical assistance, including small scale on-site pilot testing of our products. Millipore is growing and expanding into the sterile disposables markets. The recent acquisition of Novaseptic will significantly add to this position. The end goal being to partner with our customers to validate their products and processes internally as well as to regulatory officials.

Northwest Mechanical, Inc.

Joe Schadt, Industrial Sales

P.O. Box 2708

Davenport, IA 52809

Phone: 563-391-1344**FAX:** 563-391-2733**Web:** <http://www.northwestmech.com/>**Email:** jschadt@northwestmech.com

At Northwest Mechanical it is our goal to be the preferred provider of piping and mechanical systems for the biotech, pharmaceutical and food industry in the Midwest area. With a growing customer base that includes 3M, Kraft Foods, ADM, Cargill, Westlabs, Danisco, Rousselot, and PB Leiner, we are well on our way to achieving this goal. Our decision to serve customers with needs for sanitary process piping systems is part of an evolution in the firm to be a superior service provider. We focus on customers in the industrial area that need a higher level of expertise, skill, and service. We work with the customer on pre-construction design and strategy, off-site fabrication and module assembly, site installation, and start-up, including all necessary documentation and personnel to get new systems productive and product to market.

If you have a manufacturing business with a need for high quality process piping systems and desire a professional construction partner with quality, safety, and timeliness as priorities our people at Northwest Mechanical will be happy to talk with you.

Pharmacom Corporation

William X. Wang, President & CEO

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Iowa City, IA

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Pharmacom, Inc.

Pharmacom Corporation is a biodetection microsystem company. Our goal is to develop smaller-sized screening, detecting and interpreting systems with faster response, lower cost and higher sensitivity, and provide molecule profiling systems that perform the real-time detection of the biomarkers of early-stage cancers (e.g. prostate cancer, ovarian cancer, breast cancer, leukemia); signature molecules of infectious diseases (e.g. AIDS, SARS, TB, MCD), the indicators of pathogens (e.g. E.coli O157:H7) and the epidemical factors of allergies (e.g. Flu, Asthma). The molecule profiling system (MPS) is designed to be able to undertake all steps in a streamlined analysis from raw sample collection, optional sample separation, captured target identification, specific confirmation triggering and remote reporting.

Pioneer Hi-Bred International, Inc.

David McElroy, Director - Business Development
& Strategy Planning

Mathias Muller, Manager - Business Development
& Strategy Planning

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Pioneer Hi-Bred International, Inc., a DuPont company, is the world's leading developer and supplier of advanced plant genetics to farmers worldwide.

With headquarters in Des Moines, Iowa, Pioneer develops, produces and markets a full line of top-quality seeds and forage and grain additives and provides services to customers in nearly 70 countries.

Pioneer has been involved in the study and development of new products utilizing the tools of biotechnology for more than 15 years.

DuPont is a science company, delivering science-based solutions that make a difference in people's lives in food and nutrition, health care, apparel, home and construction, electronics and transportation.

Proliant Health and Biologicals

Michael Budnick, Executive VP, Sales, Marketing
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Eric Weaver, Chief Scientific Officer

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Proliant Inc. manufactures and markets animal-derived products for the food, health, nutrition, nutraceutical, diagnostic, biopharmaceutical and veterinary industries. Proliant is comprised of three divisions, each focusing on specific market segments: Proliant Ingredients, Proliant Health, and Proliant Biologicals. The company uses its core physical and chemical purification technologies for fractionation of complex biological fluids into value added proteins, lipids and carbohydrates. Proliant is always seeking new applications for animal-derived fractions in its market areas, as well as looking for opportunities to apply economical fractionation methodology to separation problems. The company is privately held, with headquarters located in Ankeny, Iowa.

Proliant Meat Ingredients: assists leading food developers with specialty meat-derived protein ingredients that offer improved flavor, increased functionality, added nutritional value, improved texture, increased cook yield while reducing drying time, formulation costs and purge.

Proliant Dairy Ingredients: provides specialty dairy proteins and assists with practical applications to food industries worldwide. Whey, lactose and specialty protein ingredients provide enhanced flavor, increased functionality, texture modification and added nutritional value for dairy, bakery, nutrition, confection, snack, meat and savory applications.

Proliant Health and Biologicals specializes in the development of ingredients from natural sources for the health and nutrition markets. The division uses exciting new technologies to concentrate or isolate bio-active peptides and proteins that play vital roles in human health. The most well known of these proteins are immunoglobulins. Proliant Biologicals is a leading manufacturer of Bovine Serum Albumin (BSA), lipoprotein and transferrin from fully traceable raw material. Our products are used in cell culture, research, diagnostic and veterinary applications.

****Attendees requesting to visit with Proliant should specify their division of interest.**

Shelton Scientific – IBI

John Stork, President
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Shelton Scientific-IBI was formed in 1989 in Shelton, CT. In 1998 the company purchased the Jordan product line of electrophoresis apparatus and in 2000 purchased the IBI brand electrophoresis equipment and reagents from Kodak. In 2004, the company was purchased by several Iowa investors, with over 60 years experience in the manufacture and marketing of lab apparatus, and moved to Peosta, IA where the company is located in a 15,000 sq. ft. modern facility.

Shelton Scientific-IBI manufacturers a full line of electrophoresis equipment; electrophoresis reagents; Beta Protection acrylic products; and TUNAIR Cell Growth Systems for the laboratory research market. Our products are sold domestically and worldwide through an authorized distributor network.

Sorganol Production Co.

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**Sorganol
Production Co.**

Sorganol Production Company is developing a new renewable energy crop/process that promises 1000gal/A of fuel ethanol ~ we have designed, built, tested the New Field Harvester which Harvests the Bio-Liquids. It is taken to onfarm storage, bio-agents are added, and 2-3 days later, the sugars are converted to Ethanol. The fuel ethanol is extracted using baled 'spent stalks'(stover), which results in a Renewable Fuel Ethanol (Sorganol(R)) at NEAR ZERO FOSSIL FUEL INPUTS. A University of Hawaii study showed this Crop with 3000+gal/A potential. It is grown at 1/4-1/3 the cost of corn, it is drought resistant and hardy, and adapted to most US climates.

Struve Labs, Inc.

Rexanne Struve, President/Owner

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Struve Labs, Inc., a renowned name in Specific Pathogen Free (SPF) pig production, is building on its years of experience to shape an exciting future for the swine industry. For more than 25 years, Dr. Rexanne Struve has been performing caesarian section pig deliveries in a sterile environment and raising caesarian derived, colostrum deprived (CDCD) piglets negative to most swine pathogens. Currently the only commercial lab in the U.S. raising CDCD pigs, Struve Labs is a respected leader in the swine industry working with biological and pharmaceutical companies and researchers across the country.

Dr. Struve has been pioneering and engineering her services to be a leading provider and a trusted partner in raising CDCD pigs for almost any project. She has positioned herself as an innovative colleague with the technology to provide creative solutions for biological companies and research programs. Dr. Struve is currently working with economic development leaders around the state to expand her business and physical facilities. As the leading supplier of CDCD pigs for the medical industry, Struve Labs is poised to be an economic engine for rural Iowa.

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Patricia A. Sweeney is a biotechnology patent attorney, focusing particularly on providing advice on plant biotechnology matters. She performs the role of "in-house" counsel by managing patent portfolios, coordinating patent prosecution, freedom-to-operate issues, and related matters. An attorney for 20 years, and a patent attorney for 18 years, she previously was employed at Pioneer Hi-Bred for seven years, three years as Chief Patent Counsel. Prior to that she was an associate with the Zarley, McKee law firm, involved in patent prosecution and litigation.

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THE UNIVERSITY OF IOWA

The Office of Corporate Partnerships -- reporting to the Vice President for Research and External Relations -- works with a broad-based constituency, within and outside the University of Iowa, to enhance the University of Iowa's participation as a key partner in economic and community development. To accomplish this goal, the Office:

- Fosters and facilitates alliances among industrial, educational, State and community partners to aid the appropriate matching of existing and emerging needs with available resources and capabilities
- Provides administrative assistance with strategic research initiatives to enhance research funding and technology transfer for targeted research programs
- Undertakes -- through its Statewide Corporate Outreach function -- site visits to Iowa companies to match business needs with University of Iowa capabilities
- Showcases University of Iowa's resources and programs to external constituencies
- Organizes campus visits for corporations
- Collaborates with local and regional economic development agencies and industry trade associations to jointly promote Iowa's capabilities

ViraQuest Inc.

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ViraQuest Inc.

Innovative Adenovirus Technologies and Reagents

ViraQuest Inc. is a custom adenovirus production company. We are interested in discussing novel uses of the adenovirus vector in various research fields. These would include protein expression and purification, vaccines and other uses that require high levels of protein expression.