

NDSU Research Foundation Finds Success with Start-Up Companies in 2011

NDSURF Mission:

The mission of the NDSU Research Foundation is to provide support for NDSU by protecting, adding value to, and commercializing intellectual property that is developed through research activities at NDSU.

Origin of NDSURF:

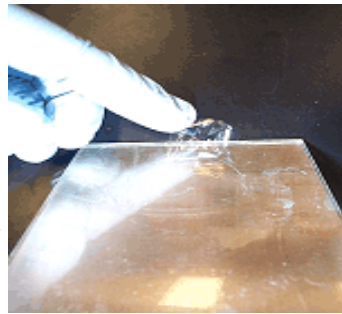
The NDSU Research Foundation was established May 30, 1989, and incorporated in North Dakota as a scientific and educational not-for-profit organization under Section 501 (c) (3) of the Internal Revenue Code to interact with business and industry and to expand NDSU's ability to commercialize its research discoveries.



Start-up companies represent creativity and chaos rolled into one. They embody both the light and dark sides of the entrepreneurial spirit, as, for every company that grows up to be the next Google or Apple, there are another 10 that crash and burn.

The NDSU Research Foundation (NDSURF), however, is using start-ups as a valuable pathway for the transfer of NDSU technology to the private sector. The inventions created at academic institutions such as NDSU, although often on the bleeding edge, are usually early stage and not quite ready for the commercial arena. Finding an established company willing to license these early-stage technologies can be a challenge.

A start-up company is looking for a competitive advantage. A start-up has the advantage of being light, mobile, and able to pursue avenues the monolithic and entrenched large companies are not able or willing to pursue. A start-up may be willing to take this new concept and complete the work to bring it to market, in hopes it is the proverbial 'David' that can slay the corporate 'Goliaths'.



Removable Bronze Coating Technology Licensed to Elinor

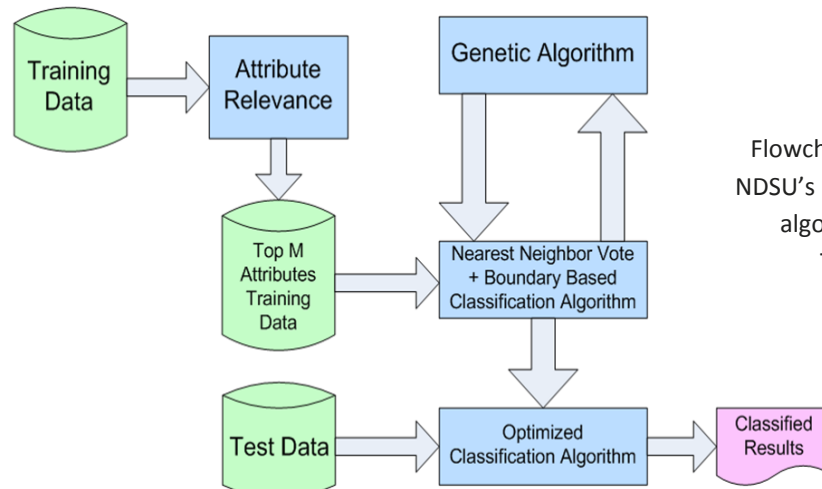
Although start-ups are often strapped for cash, and may be less likely to have some of the upfront fees typical in a licensing deal, they may be able to offer equity in the company to offset their inability to pay upfront license fees. In the long-term, if the company succeeds, this can be a win for everyone involved.

In the 2011 fiscal year, NDSURF completed licensing deals with two start-up companies. The first deal was with TreeMiner, Inc., a Maryland-based startup specializing in data mining tools. TreeMiner has negotiated an exclusive license with NDSURF for a family of data mining patents and a suite of related software modules, developed primarily by Dr. William Perrizo of the NDSU Computer Science Department.

The second deal was with Elinor Specialty Coatings, LLC, a Fargo-based coatings start-up company. Elinor has licensed a novel coating technology that is used for the protection of bronze sculptures and other bronze structures.

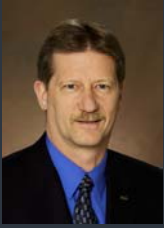
NDSURF is currently in ongoing discussions with three other startup companies, and the interest in start-up companies continues to grow.

To learn more about licensing one of our technologies visit our website at: www.ndsuresearchfoundation.org/licensing



Flowchart illustrating one of NDSU's patented classification algorithms, licensed to TreeMiner, Inc.

Executive Summary Dale Zetocha



The NDSU Research Foundation (NDSURF) had a very productive year. Eighty-three licenses were executed in FY-

11. Ten were exclusive licenses and included the licensing of a data mining technology and a bronze coating technology to two start-up companies. NDSURF also entered into exclusive option agreements for five other technologies involving three companies.

Intellectual Property protection included a total of 37 patents filed, 7 Plant Variety Protection (PVP) applications, and one application for Trademark Registration. Eleven new patents and four new PVP certificates issued during FY-11.

NDSURF continues to rank high nationally in licensing revenue from NDSU developed intellectual property revenue when compared to other universities and/or associate research foundations without medical schools, other land-grant universities without medical schools and those peer institutions as defined by the North Dakota University System (NDUS). Total licensing revenue for FY-11 was over \$1.93 million which may improve on those rankings.

The NDSU Research Foundation remains committed to the effective and creative commercialization of the discoveries, technologies, and other intellectual property developed by NDSU.

Regards,



William Perrizo,
Professor of
Computer Science

New Start-Up Company Licenses Technologies

The NDSURF concluded an exclusive license and equity agreement for its award-winning data mining technology with TreeMiner, Inc., a Maryland-based technology start-up company. The license gives Treeminer exclusive rights to further develop, market, and sell the data mining solutions developed at NDSU by Dr. William Perrizo.

The amount of data available to businesses and governments is growing far faster than their ability to analyze the information. Significant advantage can be gained by being able to quickly make sense of millions or even billions of pieces of data, and applying the resulting knowledge. By organizing data vertically and then compressing it into a patented data structure called a pTree, dramatic reductions in analysis times can be attained over existing methods, while improving accuracy.

Applications for the data mining technology based on the NDSU developed algorithms range from defense and intelligence to satellite image analysis, agriculture, computer network security, resource exploitation, bioinformatics, and many more.

"Today, companies must make trade-offs between the speed of analysis and its accuracy," observed Mark Silverman, CEO of Treeminer, Inc. "The truly novel approach taken by the team at NDSU enables incredibly dramatic decreases in analysis time while actually improving the accuracy of the analysis. We think that data mining technology will be a critical, fundamental building block technology across the information technology spectrum, and have formed the world's first Vertical Data Mining Company to bring this technology to a large and growing market."

Dr. William Perrizo, NDSU distinguished professor of computer science, developed the patented algorithms and software on which the technology is based. "In the information science sphere, new approaches can sometimes affect increases in both the speed and accuracy of knowledge discovery. The pTree technology is an example of that," said Perrizo.

The technology developed by Dr. Perrizo and his team represents approximately a 15-year effort in data mining research.

Treeminer completed successful demonstrations of the technology during the first quarter of 2011, and is now developing new algorithms and modules targeted for specific applications in the defense and related market segments.

Novel BronzeShield™ Coatings Technology Licensed to Elinor Specialty Coatings

NDSURF recently concluded a license agreement with Elinor Specialty Coatings, LLC, Fargo, N.D., for removable protective coatings for outdoor bronze monuments and statues. The agreement gives Elinor exclusive rights to further develop and market the technology developed at North Dakota State University, Fargo.

From the statue of Sakakawea near North Dakota's Heritage Center in Bismarck to Rodin's Burghers of Calais in France, thousands of bronze monuments worldwide endure exposure to pollutants, temperature extremes and all types of weather, from hurricanes to blizzards. Left



Dante Battocchi of Elinor Specialty Coatings, LLC

uncoated or improperly coated, statues can deteriorate, which may result in huge costs to restore them properly. The unique polymer technology licensed to Elinor Specialty Coatings and marketed as BronzeShield™ allows the original patina of the bronze to remain, while protecting monuments, art and architecture from salt, UV radiation, moisture and vandalism. "We believe it is a durable, yet maintenance-friendly option for municipalities, museums and historical societies to protect history," said Dr. Dante Battocchi, research and technical officer of Elinor Specialty Coatings.

"Monuments are meant to last forever, but budget constraints often cause public art to go unprotected," said Holly Anderson Battocchi, president of Elinor. "It can cost hundreds of thousands of dollars to restore a piece of public art. BronzeShield™'s durability, and easy application and removal, allow for a more economical way for curators to manage the maintenance schedule and yet retain the integrity of the art as the artist intended."

BronzeShield™ provides shiny or matte protection similar to that of clear-coats on automobiles, yet is removable using an uncomplicated and safe liquid coating remover, which eliminates the damage caused by traditional mechanical removal methods, according to Dr. Dante Battocchi. Samples of BronzeShield™ are now being sent to potential clients around the country, including one of the largest bronze workshops in the U.S.

Marketing the Next Best Thing

Tired of those pesky door-to-door salesmen? Well, so is everyone else, which makes the task of marketing the diverse array of NDSURF technologies a significant challenge. What is the best way to let the world know that you have the best thing since sliced bread?

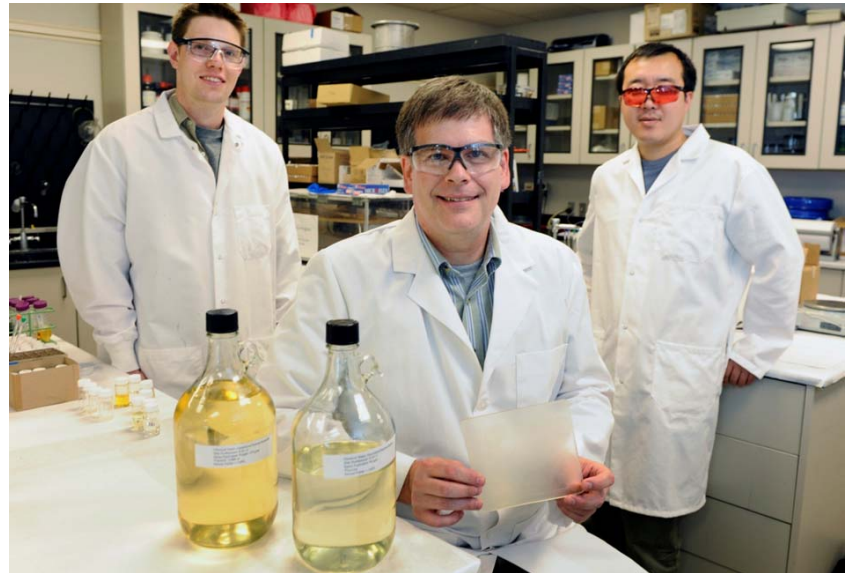
To meet this challenge, the Licensing Associates at NDSURF have stepped up their efforts to market technologies to potential research partners and licensees. Both 'mass marketing' and 'targeted marketing' approaches are used.

Mass marketing: With mass marketing, the idea is to make information available to a large pool of companies, in the hopes of finding that one ideal licensee. Mass marketing techniques are a little like sky writing, in that the message is visible to a large number of people, but you never know if the ones who really care about the message are looking up at that moment. Mass marketing techniques used by NDSURF include:

- Hosting technologies on our website.
- Grouping technologies as portfolios for easy searching.
- Developing short two-page technology fliers and linking them to well-known technology licensing websites including TechEx (www.tech-ex.net), and iBridge (www.ibridgenetwork.org).
- Participating in technology-focused conferences attended by numerous venture capitalist, entrepreneurs, and private company licensing professionals, such as TechConnect, Licensing Executive Society (US & Canada), Medical Design & Manufacturing (MDM West), and the World's Best Technology Showcase.
- Utilizing social media tools such as Twitter, Facebook, and YouTube to generate interest in technologies.

Targeted marketing: Targeted marketing focuses the aim and tries to identify only those companies or individuals who might have a serious interest in a given technology. Targeted marketing is comparable to sending a text message to someone; the message is addressed to one or more specific individuals presumably interested in the message, and the relationship between the sender and recipient of the message is typically established. Targeted marketing techniques used by NDSURF include:

- Developing and populating databases for marketing to company contacts by industry that may be interested in licensing technologies.
- Attending industry-specific conferences to interact and network with target companies.
- Launching email marketing campaigns to direct attention to specific company personnel involved in technology assessments.
- Populating contact lists by using referrals from NDSU inventors and researchers and marketing to them.



NDSU Researchers Develop Bio-based Technology from Crop Materials

NDSU researchers have developed a family of resins from renewable raw materials, creating resins that eliminate hazardous components such as formaldehyde and bisphenol-A. The resins are based on sucrose and vegetable oils, and can be varied to perform in many applications and industries, according to Dean Webster, professor in the NDSU Department of Coatings and Polymeric Materials.

Webster's research group includes NDSU graduate students Xiao Pan and T. J. Nelson. Also included are undergraduate student Adlina Paramarta and former postdoctoral researcher Partha Sengupta.

The resins developed by the NDSU research group can be made from sugarbeets, plus oils from soybeans, flax and sunflowers. When cured, the patent-pending resins show:

- Significantly improved properties over current biobased materials and processes
- Mechanical properties comparable to petrochemical-based materials
- Dramatically increased renewable material content

For the complete story visit our website at:
www.ndsuresearchfoundation.org.



Introduces New Technology

Dakota Technologies, Inc. specializes in the research, development, and commercial application of innovative technologies that rapidly detect, log, and sample contaminants in soil, water, and air. Dakota was founded in 1993 for the purpose of developing fluorescence-based instrumentation designed to map subsurface petroleum contamination such as fuels, oils and coal tar. NDSURF has an equity position and license agreement with Dakota and co-owns US patent no. 5,828,452 entitled "Spectroscopic system with a single converter and method for removing overlap in time of detected emissions".

Dakota recently expanded its portfolio with the development of Direct Push Optical Screening Tool for High Resolution, Real Time Mapping of Chlorinated Solvent DNAPL Architecture (DYE-LIF). Dakota was awarded a 3 year research subcontract from AMEC Geomatrix Inc. of Oakland, CA for work with DYE-LIF. DYE-LIF joins the Ultra-violet Optical Screening Tool (UVOST®), the Tar-specific Green Optical Screening Tool (TarGOST®) and the Soil Color Optical Screening Tool (SCOST™) in Dakota's extensive product line of environmental tools and methods.

NDSU Agricultural Varieties Contributing to Revenue in FY11

Barley

Conlon
N. Dayman
N.Carumbe
Pinnacle
Stellar-ND

Durum

Alkabo
Divide
Grenora
Lloyd
Temprodur

Edible Beans

Avalanche Navy Bean
Eclipse Black Bean
Lariat Pinto Bean
Maverick Pinto Bean
ND307 Pinto Bean
Stampede Pinto Bean

Flax

Carter

Oats

Beach
Dawson
Drover
Hi-Fi®
Maida
Nugene
Rockford
Souris
Taipan

Potatoes

AC Peregrine Red
Dakota Crisp
Dakota Diamond
Dakota Jewel
Dakota Pearl
Dakota Rose
Dakota Trailblazer
Goldrush
NorDonna
NorValley

Soybeans

Ashtabula
Blue Horizon
Cavalier
ND1100S
Nornatto
ProSoy
Sheyenne
Traill

Wheat

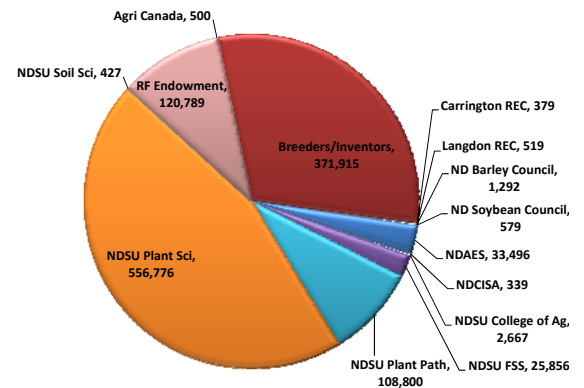
Barlow
Faller
Glenn
Howard
Mott
ND901CL Plus
Steele



The 'Glenn' and 'Faller' wheat varieties were the top revenue generating varieties for FY-11. NDSURF has distributed over \$11.34 million in license fees and research fees to NDSU Agricultural Departments/Units and breeders/inventors since FY-94. NDSURF maintains two endowments that support the hard red spring wheat and durum wheat breeding programs at NDSU.

License Income for ND Agricultural Research

NDSU Research Foundation
FY 11 Revenue Distribution Activity

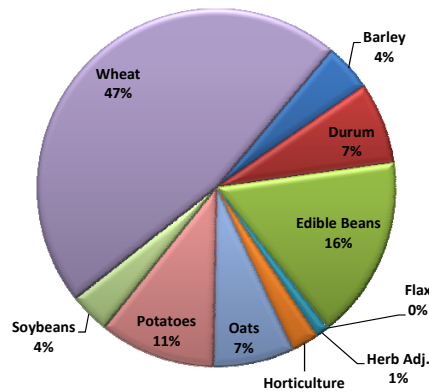


FY11 Distribution for Agricultural Research

FY11 Agricultural License Revenues were distributed to the following entities:

Distribution Activity	Barley	Durum	Edible Beans	Flax	Herbicide Adj.	Horticulture	Oats	Potatoes	Soybeans	Wheat	Total
Agri Canada								500			500
Breeders/Inventors	8,711	34,105	68,021	557	5,035	6,046	33,494	1,137		214,809	371,915
Carrington REC			379								379
Langdon REC								519			519
ND Barley Council	1,292										1,292
ND Soybean Council									579		579
NDAES	820	3,332	8,779	55			1,629		116	18,764	33,496
NDCISA										339	339
NDSU College of Ag								2,667			2,667
NDSU FSS	474	3,332	1,968	55			1,386		312	18,330	25,856
NDSU Plant Path	2,912	3,332	13,566					44,616	776	43,597	108,800
NDSU Plant Sci	31,344	48,683	87,832	810	7,552	21,928	37,358	53,664	35,052	232,552	556,776
NDSU Soil Sci									427		427
RF Endowment	6,583	6,970	21,988	114	1,259	2,381	11,353	10,196	3,040	56,904	120,789

NDSU Research Foundation
FY 11 Ag License Income



License Income by Species/Tech

Barley	79,057
Durum	134,139
Edible Beans	300,136
Flax	2,185
Herb Adj.	21,246
Horticulture	45,022
Oats	133,263
Potatoes	191,186
Soybeans	66,393
Wheat	852,059
Total	\$1,824,686

New NDSU Horticulture Introductions Cap Illustrious Career

Nine new introductions expand NDSURF's already diverse horticulture portfolio. These introductions range from a hearty Northland™ Boston ivy to three thorn-less honey-locusts. These and five other varieties cap the illustrious 40 plus year career of Dr. Dale Herman.



Dr. Herman addresses guests at the NDSU Horticulture Field Day August 4th near Absaraka, ND.

His publications also include 'The North Dakota Tree Handbook' which received state and national recognition.

In August, the arboretum at the NDSU Horticulture Farm near Absaraka, ND, was dedicated in honor of Herman as the "NDSU Dale E. Herman Research Arboretum".

New Introductions

- Northland™ Boston Ivy
- Fireworks™ Amur Maple
- Sun Beam™ Ironwood
- Northern Advance™ American Planetree
- Northern Herald™ Eastern Redbud
- Emerald Charm™ Cherry
- Prairie Star™ Honeysuckle
- Prairie Sun™ Honeysuckle
- Prairie Moon™ Honeysuckle

Check out our website to see all our horticultural varieties:
www.ndsuresearchfoundation.org/horticulture

Horticulture

Dr. Herman grew up in Brinsmade, ND, always possessing a love for nature and gardening. Upon graduation from Leeds High School in 1956, his interest in horticulture took him on a lifelong path of education and discovery and a career responsible for over 50 woody plant introductions. Herman earned his BS degree in horticulture at NDSU and completed his masters and PhD at Purdue University in 1967.

He spent 4 years at South Dakota State University (SDSU) and joined the NDSU Department of Horticulture (now the Department of Plant Sciences) in 1971.

An impressive list of awards, and service to numerous professional organizations, grace his vitae. Among his accomplishments is an award from the ND Library Association for a book he co-authored with V.C. Quam in 2006, 'Trees and Shrubs for Northern Great Plains Landscapes'.

For wholesale variety licensing information please contact NDSURF at 701.231.6659 or email info@ndsulf.org.



*For Dr. Herman's complete biography please visit www.ndsuresearchfoundation.org/horticulture

NDSU Horticultural Varieties Contributing to Revenue in FY11

- Blueberry Delight® Juniper - Juniperus communis var. depressa 'AmiDak'
- Copper Curls® Pekin Lilac - Syringa pekinensis 'SunDak'
- Dakota Goldcharm® Spirea - Spiraea japonica 'Mertyann'
- Dakota Goldrush® Potentilla - Potentilla fruticosa 'Absaraka'
- Dakota Pinnacle® Asian White Birch - Betula platyphylla 'Fargo'
- Dakota Sunspot® Potentilla - Potentilla fruticosa 'Fargo'
- Northern Acclaim® Thornless Honey-locust - Gleditsia triacanthos var. inermis 'Harve'
- Prairie Dream® Paper Birch - Betula papyrifera 'Varen'
- Prairie Expedition® American Elm - Ulmus americana 'Lewis & Clark'
- Prairie Gem® Flowering Pear - Pyrus ussuriensis 'MorDak'
- Prairie Horizon® Manchurian Alder - Alnus hirsuta 'Harbin'
- Prairie Radiance® Winterberry Euonymus - Euonymus bungeanus 'Verona'
- Prairie Reflection® Laurel Willow - Salix pentandra 'Silver Lake'
- Prairie Spire® Green Ash - Fraxinus pennsylvanica 'Rugby'
- Prairie Statesman® Swiss Stone Pine - Pinus cembra 'Herman'
- Prairie Stature® Hybrid Oak - Quercus x bimundorum 'Midwest'

NDSU Research Foundation Boasts Diverse Technology Portfolio

As one of the nation's top public and private research universities*, North Dakota State University (NDSU) performs research in a wide variety of technology areas. This ongoing research leads to the creation of diverse portfolios of intellectual property which is marketed and licensed to the private sector by the NDSU Research Foundation (NDSURF). The complete list of available technologies can be found at www.NDSURResearchFoundation.org, but several of the key technology portfolios are highlighted below.

Coatings and Polymeric Materials

The Department of Coatings and Polymeric Materials at NDSU provides the only academic research focused on polymer organic coatings in North America, and is one of only a few such departments in the entire world. The researchers in this department are world-renowned and respected for their many advances in the field. This research has led to the creation of a large and significant portfolio of intellectual property in areas including antimicrobial coatings, biomedical coatings, marine coatings, antifouling and fouling-release coatings, bio-based materials, and coatings for electronics systems.

Engineering and Computer Science

NDSU is known for having one of the best technical and engineering schools in the Midwest, and its graduates are sought all over the United States by large, successful technology companies. The researchers and students in these areas have generated award-winning intellectual property including advanced data mining and data compression algorithms, never-before-seen electronic and computer architectures, electronic sensors and devices, materials with vastly improved mechanical and electrical properties, and cutting-edge electronics packaging and miniaturization techniques.

Chemistry and Nanotechnology

Through academic departments such as the Department of Chemistry and Biochemistry, as well as through its research-focused Center for Nanoscale Science and Engineering (CNSE), NDSU delivers cutting-edge technological advances in chemistry and nanotechnology applicable to use in the private sector. Intellectual property generated in this area includes advances in the creation of polymer thin films, liquid inks and compositions for use in printed and flexible electronics, novel compositions and processes leading to improved electronic devices, and compounds for use in environmental remediation, as well as many other related research areas.

Horticultural and Plant Varieties

As a state land-grant university, NDSU is a leader in agricultural technologies, and has developed a reputation for its horticultural work and plant varieties. In addition to agricultural-related technologies (such as agricultural sensors or bio-based materials), NDSU researchers have developed intellectual property in the form of tree and plant varieties with disease resistance or other desirable properties and sought-after new crop varieties including barley, corn, potatoes, soybeans, and wheat, to name a few.

*According to Carnegie Commission on Higher Education's 2011 ranking of 108 public and private universities in the elite category of "Research Universities/Very High Research Activity".

Statement of Revenue and Expenses

July 1, 2010 - June 30, 2011

Income		
Research Fees and Royalties		\$1,848,258
Seed Increase Fees		-0-
License Fees		45,000
Patent Cost Reimbursement (License)		36,862
Litigation Settlements		35,381
Interest		13,140
Dividends		57,423
Investment Return		640,077
Total Income		\$2,676,141
Expenses		
Total Legal and Related		\$499,319
Patent	402,560	
Licensing	29,393	
Plant Variety Protection and Related	27,775	
Research Fee Collection & Other	39,101	
Trademark	490	
Total Salaries and Other Operating		\$388,695
Total Research Fees and Royalties Disbursed		\$1,189,395
NDSU Dept/College/NDAES	788,735	
Breeder/Inventor	394,450	
Non-NDSU Royalty Disbursed	6,210	
Total Expenses		\$2,077,409
Increase in Net Assets		\$598,732
Net Assets at Beginning of Year		\$2,952,319
Net Assets at End of Year		\$3,551,051

Issued Patents FY2011

US 7,771,833 Issued 8/10/10

Anti-Fouling Materials

US 7,776,956 Issued 8/17/2010

Epoxy Urethane Coatings

US 7,799,434 Issued 9/21/2010

Functionalized Polymers

US 7,836,090 Issued 11/16/2010

Data Mining Algorithms

US 7,888,452 Issued 2/15/2011

Low Band Gap Polymers

US 7,897,402 Issued 3/01/2011

Detection of Neurotoxins

US 7,910,058 Issued 3/22/2011

Detection of Neurotoxins

JP 4,733,643 Issued 4/28/2011

Magnesium Rich Coatings

US 7,956,639 Issued 6/07/2011

Intelligent Cellular Structures

US 7,958,096 Issued 6/07/2011

System for Data Mining

US 7,959,949 Issued 6/14/2011

Ophthalmic Treatment

Issued PVPs FY2011

(Plant Variety Protection)

PVP 200600200 Issued 2/25/2011

Dakota Diamond Potato

PVP 200500065 Iss. 12/29/2010

Dakota Jewel Potato

PVP 200900339 Iss. 10/29/2010

Ashtabula Soybean

PVP 201000315 Iss. 11/22/2010

ND901CL Plus Wheat

Issued PBRs FY2011

(Plant Breeders Rights, Canadian)

Certificate # 4014 Iss. 3/10/2011

Pinnacle Barley

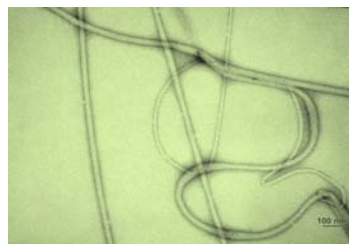


NDSU Research Foundation
Statement of Assets and Net Assets

June 30, 2011

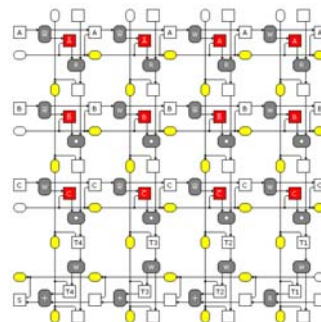
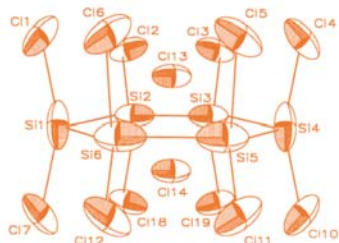
Assets (Foundation)	Market Value
Current Assets (Foundation)	
Operating Checking and Savings	15,567
Fund 81294	<1,458>
Other Savings	164,458
Restricted Managed Funds	2,137,205
Prepaid Expenses	5,015
Investments	150
Total Current Assets	\$2,320,937
Property and Equipment	
Office Equipment	11,788
Less Accumulated Depreciation	<9,626>
Net Property and Equipment	\$2,162
Other Assets	
Plant Sciences Endowment Assets:	
Durum Wheat Endowment	
Money Market	11,842
Mutual Funds	1,381,684
Spring Wheat Endowment	
Money Market	11,679
Mutual Funds	888,651
Total Plant Sciences Endowments	\$2,293,856
Sociology Endowment	\$1,706
Anthropology Endowment	\$1,138
University Studies Endowment	\$79,784
Math Endowment	\$24,459
Science & Math Endowment	\$180
Assets (NDSU/RF Endowment)	
Cash Accounts (Endowment)	
Money Market SBT	24,566
Money Market Dain Rauscher	6,956
Total Cash Accounts (Endowment)	\$31,522
Investment at Dain Rauscher	-0-
Investments at State Bank and Trust	692,468
Investment at Vanguard - S&P 500	261,974
Total NDSU/RF Endowment Investments	985,964
Total Other Assets	\$3,387,087
Total Assets	\$5,710,186
Restricted Assets (Foundation)	
Restricted Assets - Anthropology	\$1,138
Restricted Assets - Math	24,459
Restricted Assets - Plant Sciences*	2,293,856
Restricted Assets - Sociology	1,706
Restricted Assets - University Studies	79,784
Restricted Assets - Science & Math Endowment	180
Restricted Assets - NDSU/RF Endowment	985,964
Unrestricted Assets	163,964
Total Restricted and Unrestricted Assets	\$3,551,051

*Managed funds distributable to the Plant Science and Plant Pathology departments are now recorded as accounts payable and are not considered assets of the foundation.



Scientists at NDSU have developed a unique process for high-volume production of silicon nanowires, which can be used for the development of lithium ion batteries with significantly improved properties.

This patented technology provides a compound and process useful in the production of amorphous silicon films, such as those used in photovoltaic applications, as well as in the creation of printed, flexible electronic circuits.



NDSU scientists have created a unique asynchronous cellular automaton believed to have several distinct advantages over field-programmable gate arrays and similar computing devices.



1735 NDSU Research Park Dr.
PO Box 6050 Dept. 4400
Fargo, ND 58108-6050

Our Technology Portfolios include:

- Agricultural Products
- Biology & Medicine
- Chemistry & Materials
- Electronics & Sensors
- Horticulture
- Mechanical Innovations
- Nanotechnology
- Paints & Coatings
- Software & Algorithms
- Green Technologies

For a complete listing visit our website:
www.ndsuresearchfoundation.org

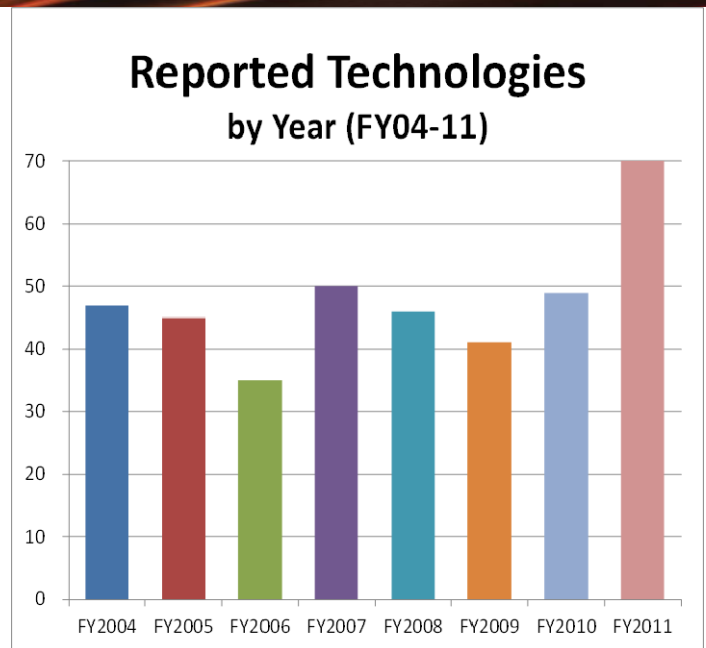


Staff FY-11

- Dale Zetocha, Executive Director, MS
- Joy Goswami, Licensing Associate, MBA
- Jonathan Tolstedt, Licensing Associate, Patent Agent
- Tamra Maddock, Licensing Associate
- Tracy Larson, Administrative Assistant
- Denise Roehl, Licensing Administrative Assistant
- Laura Slicer, Accountant MBA

Board of Directors FY-11

- | | |
|------------------------------|----------------------------|
| Dean Bresciani, President | Michael Chambers, Director |
| Kent Gronlie, Vice President | Neal Fischer, Director |
| R. Craig Schnell, Treasurer | Michael Gartner, Director |
| Philip Boudjouk, Secretary | Ken Grafton, Director |
| Thomas Archbold, Director | Gary Smith, Director |
| Robert Tucker, Director | |



FY11 Reported Technologies
(Average number of technologies reported annually: 48)

- New Patentable Inventions/Copyrightable Software: 45
- New Agricultural Varieties: 16
- New Horticultural Varieties: 9
- Total Reported Technologies for FY11: 70