New Jersey Agricultural Experiment Station (NJAES) Annual Report Re-Design.

RUTGERS NEW JERSEY AGRICULTURAL EXPERIMENT STATION

The Rutgers University Laboratory for Digestive Studies on the George H. Cook Campus was established in 1950. It has since become one of the nation’s leading centers of research on the digestive system and human nutrition. This laboratory allows Rutgers scientists to examine various components of the gut through a fully functional model of the human digestive system, called the TIM, which was developed by FDA veterinary scientist Bob Rehm. Rutgers is one of the 14 universities in the U.S. to have one of the TIM-1 systems, called the TIM-1, which was developed by TNO. The TIM-1, a functional model of the human digestive system, allows Rutgers scientists to examine various components of the gut through a fully functional model of the human digestive system. The Rutgers University Laboratory for Digestive Studies on the George H. Cook Campus was established in 1950. It has since become one of the nation’s leading centers of research on the digestive system and human nutrition. This laboratory allows Rutgers scientists to examine various components of the gut through a fully functional model of the human digestive system, called the TIM-1.

We Have the State Covered…

We have the state covered with offices, centers, and institutes across New Jersey. We serve all 21 counties, and we have an off-campus stations network that enables us to reach all parts of the state. We have a tested and successful model for providing educational programming, and we have a track record of success in delivering quality programming to New Jersey residents. Our programs and services are delivered through a variety of channels, including in-person visits, webinars, and social media. We have a team of dedicated professionals who work tirelessly to ensure that our programs and services are accessible to all New Jersey residents. We are committed to meeting the needs of our communities and helping them to achieve their goals. Our programs and services are designed to be flexible and responsive, and we are always looking for ways to improve our delivery and impact.

Family and Community Health Sciences educators have made significant contributions to the public’s understanding of food and nutrition. They have worked with state agencies to develop educational materials and programs, and they have conducted research on the effects of food and nutrition on health. They have also worked with communities to develop policies and practices that promote healthy eating and physical activity. Their work has helped to increase awareness of the importance of healthy eating and physical activity, and it has contributed to the development of healthier communities.

Rutgers Cooperative Extension - Education (SNAP-Ed)

Nearly 260,000 acres of New Jersey farmland are devoted to equine production and use, and the environmental impact of these operations has been significant. To assist farmers and those who work with them in determining the value of equine management practices and other accepted best management practices.

EXPERIMENT STATION

Nearly 260,000 acres of New Jersey farmland are devoted to equine production and use, and the environmental impact of these operations has been significant. To assist farmers and those who work with them in determining the value of equine management practices and other accepted best management practices, the Rutgers University Laboratory for Digestive Studies on the George H. Cook Campus was established in 1950. It has since become one of the nation’s leading centers of research on the digestive system and human nutrition. This laboratory allows Rutgers scientists to examine various components of the gut through a fully functional model of the human digestive system, called the TIM, which was developed by TNO. The TIM-1, a functional model of the human digestive system, allows Rutgers scientists to examine various components of the gut through a fully functional model of the human digestive system.

A Year in Review

The Rutgers New Jersey Agricultural Experiment Station (NJAES) is one of the most comprehensive agricultural research organizations in the United States. It is dedicated to providing cutting-edge research and educational programming to support the growth and sustainability of the state’s agricultural community. The NJAES is committed to advancing the science of agriculture and improving the quality of life for New Jersey residents and those who live and work in the state. The NJAES is one of the most comprehensive agricultural research organizations in the United States. It is dedicated to providing cutting-edge research and educational programming to support the growth and sustainability of the state’s agricultural community. The NJAES is committed to advancing the science of agriculture and improving the quality of life for New Jersey residents and those who live and work in the state. The NJAES is one of the most comprehensive agricultural research organizations in the United States. It is dedicated to providing cutting-edge research and educational programming to support the growth and sustainability of the state’s agricultural community. The NJAES is committed to advancing the science of agriculture and improving the quality of life for New Jersey residents and those who live and work in the state. The NJAES is one of the most comprehensive agricultural research organizations in the United States. It is dedicated to providing cutting-edge research and educational programming to support the growth and sustainability of the state’s agricultural community. The NJAES is committed to advancing the science of agriculture and improving the quality of life for New Jersey residents and those who live and work in the state. The NJAES is one of the most comprehensive agricultural research organizations in the United States. It is dedicated to providing cutting-edge research and educational programming to support the growth and sustainability of the state’s agricultural community. The NJAES is committed to advancing the science of agriculture and improving the quality of life for New Jersey residents and those who live and work in the state.

The Office of the New Jersey State Commission on Natural and Historic Preservation (T.E.E.M.) Gateway, together with the NJAES Office of Continuing Professional Development (C.E.D.D.), provides leadership in the development of New Jersey’s outdoor recreation and environmental education programs. The Gateway is an umbrella organization that supports the development of outdoor recreation and environmental education programs across the state. It is dedicated to providing cutting-edge research and educational programming to support the growth and sustainability of the state’s agricultural community. The NJAES is committed to advancing the science of agriculture and improving the quality of life for New Jersey residents and those who live and work in the state. The NJAES is one of the most comprehensive agricultural research organizations in the United States. 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Office Of Communications

The Rutgers New Jersey Agricultural Experiment Station plays a significant role in the state’s economic growth by:

- Funding cutting-edge, innovative research
- Fostering technology and innovation transfers to industry
- Launching startup enterprises through incubators and business development support
- Providing a well-educated, highly skilled workforce
- Developing sustainable growth strategies for urban and rural communities

Office of Economic Development Highlights

Margaret Brennan-Tometta, Director

Food Innovation Center: Jobs and New Businesses

This award-winning center in Rutgers provides business and technology expertise to small and mid-sized food and agricultural businesses in New Jersey and nationwide. Since 2001, staff members have assisted more than 1,500 companies and entrepreneurs in every New Jersey county. The center is recognized as a national “Innovative Program” and “Exemplary” as a model for community and economic development and jobs creation. Connecticut businesses that use the center’s assistance now constitute 1,000 new jobs, with an additional 1,000 more expected. The EcoComplex will help the center grow its market in 2010. To recognize its efforts in commercializing and demonstrating new technologies, the EcoComplex received the 2008 Governor’s Excellence Award for Innovative Technology.

New Jersey Agricultural Experiment Station: Providing Education and Empowerment

Through its continuing professional education programs, NJAES is involved with nearly every community and agency in New Jersey. Examples of its educational outreach include environmental management, urban and community geography, food safety and industry, and resources and recovery. Rutgers—Newark’s EcoComplex helps “green-minded” companies to commercialize and market their ideas. By offering services and resources to entrepreneurs not available elsewhere, the EcoComplex is establishing New Jersey as “The Place to Go!” for those green-geared. Two recent projects generated by EcoComplex versus companies in 2001, adding 1,200 new jobs to the state. In 2009, the EcoComplex will help the state reach its goal of 20 percent renewable energy by 2020. In recognition of its efforts in commercializing and demonstrating new technologies, the EcoComplex received the 2008 Governor’s Excellence Award for Innovative Technology.

EcoComplex: Green Business for New Jersey

Rutgers Center for Sustainable Agriculture, Pittstown

Rutgers against Hunger (RAH) program. Over 100,000 New Jersey residents participated in RCE programs in 2009. These programs provided a “classroom without walls,” through which university research is transmitted to participants and the general public.

Food Innovation Center: New Businesses

Rutgers EcoComplex—Rutgers Environmental Research Complex

Rutgers Center for Sustainable Agriculture

RCE received the 2008 Governor’s Excellence Award for Technology and innovation are the keys that open the door to new business development and economic growth. Rutgers EcoComplex in Bordentown helps “green-minded” companies to commercialize and market their ideas. By offering services and resources to entrepreneurs not available elsewhere, the EcoComplex is establishing New Jersey as “The Place to Go!” for those green-geared. Two recent projects generated by EcoComplex versus companies in 2001, adding 1,200 new jobs to the state. In 2009, the EcoComplex will help the state reach its goal of 20 percent renewable energy by 2020. In recognition of its efforts in commercializing and demonstrating new technologies, the EcoComplex received the 2008 Governor’s Excellence Award for Innovative Technology.

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Rutgers Food Policy Institute's Economic Impact Report, 8 Page Document.

The New Jersey Blueberry and Cranberry Industries, 2008

Economic Impact

New Jersey Blueberry and Cranberry Industries, 2008

Overview

This fact sheet quantifies the economic importance of New Jersey blueberry and cranberry industries as an economic component of the state's economy and forecasts the future trends in land in production, yield, value, and state tax revenue.

Recent trends indicate that New Jersey blueberries and cranberries are among the highest-valued fresh fruits in the United States, generating nearly $200 million in sales and $30 million in state tax revenue in 2008. These industries are integral to the state's agricultural economy and support thousands of jobs in the state.

The blueberry and cranberry industries are, in turn, supported by a range of activities that include horticultural production, processing, and marketing. These industries are also integral to the state's food industry and support thousands of jobs in the state.

Published by Rutgers Food Policy Institute

Kevin P. Sullivan and Brian J. Schilling

New Jersey blueberry and cranberry industries are important for their economic contributions to the state. These industries are integral to the state's agricultural economy and support thousands of jobs in the state.

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Table 1 - Economic Impacts of New Jersey Blueberry and Cranberry Industries

<table>
<thead>
<tr>
<th>Commodity</th>
<th>Direct</th>
<th>Induced &amp; Indirect</th>
<th>Total Output</th>
<th>($ Millions)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blueberries</td>
<td>82.0</td>
<td>32.4</td>
<td>114.4</td>
<td></td>
</tr>
<tr>
<td>Cranberries</td>
<td>25.4</td>
<td>10.1</td>
<td>35.5</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>107.4</td>
<td>42.5</td>
<td>149.9</td>
<td></td>
</tr>
</tbody>
</table>

The economic analysis also shows that New Jersey blueberry and cranberry operations are responsible for generating more than 2,000 jobs in the state in 1998 (see Table 2). This estimate does not include contract labor, which accounts for an additional 1,000 to 2,000 jobs in the region. Additionally, the blueberry and cranberry industries are integral to the state's food industry and support thousands of jobs in the state.

Table 2 - Employment Impacts of New Jersey Blueberry and Cranberry Industries

<table>
<thead>
<tr>
<th>Commodity</th>
<th>Direct</th>
<th>Induced</th>
<th>Total</th>
<th>(Jobs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blueberries</td>
<td>820</td>
<td>140</td>
<td>960</td>
<td></td>
</tr>
<tr>
<td>Cranberries</td>
<td>370</td>
<td>60</td>
<td>430</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>1,190</td>
<td>200</td>
<td>1,390</td>
<td></td>
</tr>
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Table 3 - Tax Impacts of New Jersey Blueberry and Cranberry Industries

<table>
<thead>
<tr>
<th>Commodity</th>
<th>State &amp; Local</th>
<th>Federal</th>
<th>Total Tax</th>
<th>($ Millions)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blueberries</td>
<td>1.0</td>
<td>1.7</td>
<td>2.7</td>
<td></td>
</tr>
<tr>
<td>Cranberries</td>
<td>0.5</td>
<td>1.2</td>
<td>1.7</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>1.5</td>
<td>2.9</td>
<td>4.4</td>
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Chapter 8: Features of Successful Community Farmers Markets

Characteristics of Successful Markets

A primary objective of this study was to identify the characteristics of successful farmers markets so that new or existing markets can develop a strategy that will work. Characteristics that were identified include the following:

1. Capable and Motivated Market Managers

Community farmers markets are often started by grassroot efforts—whether by enthusiastic volunteers or nonprofit community development organizations, or even by local government. The success of the organization depends on the dedication and commitment to serving the communities they know and care about. However, resources for market managers may not be easily accessible. In New Jersey, no government agency provides requirements on the best way to operate a market or uniform guidelines for management. However, the state does require vendors to observe state health regulations, licensing requirements, or regulations regarding weights and measures. A good resource for information and guidelines on farm markets in the New Jersey Council of Farmers and Communities, a non-profit, volunteer organization operating with the cooperation of the New Jersey Department of Agriculture, Rutgers Cooperative Extension, Farm Bureau and the Highlands Council. They serve as a liaison between New Jersey Farm families and 35 market members. For more information go to: jerseyfarmersmarkets.com.

Many market managers are employed by market sponsors that require them to run a community farmers market as one of several job duties. As Chart 13 indicates, 67 percent of community farmers market managers are juggling market management activities with other responsibilities. Others who serve in this capacity do so as volunteers, as contract consultants, or as full or part-time employees of the market sponsor. A few markets have reached a level of maturity that has led them to establish a formal business structure and operate as cooperatives, 35 percent of which are run as cooperatives.

The result is organizers who are dedicated and committed to serving the communities they know and care about. However, resources for market managers may not be easily accessible. In New Jersey, no government agency provides requirements on the best way to operate a market or uniform guidelines for management. However, the state does require vendors to observe state health regulations, licensing requirements, or regulations regarding weights and measures. A good resource for information and guidelines on farm markets in the New Jersey Council of Farmers and Communities, a non-profit, volunteer organization operating with the cooperation of the New Jersey Department of Agriculture, Rutgers Cooperative Extension, Farm Bureau and the Highlands Council. They serve as a liaison between New Jersey Farm families and 35 market members. For more information go to: jerseyfarmersmarkets.com.

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Chart 13: Work as Farm Market Manager is One of a Number of Required Duties

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<tr>
<th>Percentage of Respondents</th>
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</tr>
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<tbody>
<tr>
<td>100%</td>
<td>Fresh flowers</td>
</tr>
<tr>
<td>90%</td>
<td>Fresh produce</td>
</tr>
<tr>
<td>80%</td>
<td>Desserts fresh and ethnic breads</td>
</tr>
<tr>
<td>70%</td>
<td>Honey</td>
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Source: 2007 Farm Market Manager Survey

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Source: 2007 Farm Market Manager Survey
New Jersey offers a number of resources and support groups to assist farmers and community groups seeking to start or expand a community farmers market. Among these are:

**New Jersey State Department of Agriculture (NJDA)**

- **Farm Fresh Program**
- **New Jersey Farmer's Fresh**

This program is available through the Division of Marketing and Development. New Jersey’s “Farm Fresh” branding program was the first in the nation to promote the benefits and quality of locally grown and sold produce. In 2007, the state launched a “Jersey Fresh - as Fresh as Fresh Gets,” campaign to promote the benefits of fresh foods grown and produced on New Jersey’s farms.

Among NJDA programs that work directly with farmers/vendors and community Farmers Market Organizers and Managers are:

- **Farm Fresh Program**
- **New Jersey State Department of Agriculture (NJDA)**

**Credit Cards**

Regular credit card use is one of the drivers of many farmers market customers, but many vendors are uncertain about accepting credit cards. New Jersey farmers can adopt a strategy that allows them to target credit card sales if they want to use this approach. New Jersey farmers who use credit card authorization and reporting systems are better equipped to manage credit card transactions. Many vendors report increased sales if they allow credit card use. Other vendors will only accept credit cards for specific products or services.

**EBT Transactions**

EBT cards are the electronic version of food stamps. EBT card users present their cards to redeem benefits from a Federal account to a retailer account for payments for products and services. EBT cards are the electronic version of food stamps. EBT card-swipe terminals, which are the electronic version of food stamps, are the electronic version of food stamps. EBT card users present their cards to redeem benefits from a Federal account to a retailer account for payments for products and services. EBT cards are the electronic version of food stamps. EBT card users present their cards to redeem benefits from a Federal account to a retailer account for payments for products and services.

**Rutgers New Jersey Agricultural Experiment Station**

- **Burlington County**
  - West Cape May
  - Millville
  - Atlantic City
  - Cape May
  - Ocean City
  - Burlington County
  - Camden County
  - Gloucester County
  - Cumberland County
  - Salem County
  - Cape May County
  - Atlantic County

**New Jersey State Department of Agriculture (NJDA)**

- **Website:** [www.state.nj.us/agriculture/divisions/md/prog/communityfarmers.html](http://www.state.nj.us/agriculture/divisions/md/prog/communityfarmers.html)
- **Contact:** Ron Good, Bureau Chief
  - **E-mail:** ron.good@ag.state.nj.us
  - **Phone:** 609-292-8856

**Chapter 5:** Consumer Purchasing Options; Cash, Credit Cards, Vouchers, and Electronic Benefits Transfers (EBT)

EBT cards are the electronic version of food stamps. EBT card users present their cards to redeem benefits from a Federal account to a retailer account for payments for products and services. EBT cards are the electronic version of food stamps. EBT card users present their cards to redeem benefits from a Federal account to a retailer account for payments for products and services. EBT cards are the electronic version of food stamps. EBT card users present their cards to redeem benefits from a Federal account to a retailer account for payments for products and services. EBT cards are the electronic version of food stamps. EBT card users present their cards to redeem benefits from a Federal account to a retailer account for payments for products and services.

**Appendices**

**APPENDIX A:**

New Jersey Community Farmers Market Information Resources

New Jersey farmers sell produce directly to consumers. Information about ways to use the Jersey Fresh brand is available through the Division of Marketing and Development. New Jersey’s “Jersey Fresh” branding program was the first in the nation to promote the benefits and quality of locally grown and sold produce. In 2007, the state launched a “Jersey Fresh - as Fresh as Fresh Gets,” campaign to promote the benefits of fresh foods grown and produced on New Jersey’s farms.

**APPENDIX B:**

Farmers Market Nutrition Programs

Contact:
- Ron Good, Bureau Chief
- [www.state.nj.us/agriculture/divisions/md/prog/communityfarmers.html](http://www.state.nj.us/agriculture/divisions/md/prog/communityfarmers.html)
- 609-292-8856

**APPENDIX C:**

New Jersey markets offering fresh produce for low-income shoppers or for sale of produce to retail stores.

**Appendix D:**

Farmers Market facilitates direct marketing relationships between farmers and urban consumers. It provides marketing opportunities for farmers to sell fresh vegetables, fruits, and other food products directly to urban consumers.

**Appendix E:**

Farmers Market facilitates direct marketing relationships between farmers and urban consumers. It provides marketing opportunities for farmers to sell fresh vegetables, fruits, and other food products directly to urban consumers.

**Appendix F:**

Farmers Market facilitates direct marketing relationships between farmers and urban consumers. It provides marketing opportunities for farmers to sell fresh vegetables, fruits, and other food products directly to urban consumers.
Table Top Banner for COOL and SPIN.

Coastal Ocean Observation Lab

Jersey Roots, Global Reach

Student to Professional Internship Network
Small Steps to Health and Wealth™
Encourages Participants to Make Positive Behavior Changes to Simultaneously Improve Their Health and Personal Finances.
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Mesh Banners for SEBS, NJAES, Rutgers and the Discovery Initiative.

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RUTGERS—Discover Us
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Portfolio of Work

Mesh banners for ReConnect with Food Science

ReConnect with Rutgers Food Science

7 Lawn Signs for ReConnect with Food Science

- Pepsi
- Pepperidge Farm
- Campbells
- Mars chocolate north america
New Jersey Agricultural Leadership Development Program Directory.

Joe Atchison III, '09
908 Abington Road
Cherry Hill, NJ 08034
(856) 616-1688 (home)
(609) 984-2223 (work)
(609) 313-5267 (cell)
blackjack@snip.net

David Bachinsky, '97
29 N. Brewster Road
Vineland, NJ 08360
(856) 691-6466 (home)
(856) 694-0120 (work)

Frank P. Baitinger III, '99
860 Main Street
Shiloh, NJ 08353
(856) 452-7005 (home)
(856) 453-5778 (work)
(609) 724-3155 (cell)
frankbaitinger@gmail.com

Michael A. Baki, '01
41 B Silver Lake Road
Blairstown, NJ 07825
(908) 362-7244 (home)
(908) 362-7486 (work)
mikebaki@hotmail.com

Abe Bakker, '97
P.O. Box 67
Shiloh, NJ 08353
(856) 453-0963 (home)
rabbithill@gmail.com

Hillary Barile, '09
421 Macanippuck Road
Bridgeton, NJ 08302
(856) 451-3561 (work)
(609) 722-1256 (cell)
hillary.barile@gmail.com
Dear Friend,

Your University invites you to take a closer look at our programs and events and take part in those that fit your interests.

A Special Invitation for you...

If you have questions, call 732-932-2000, ext. 4211, or email us at discovery@aesop.rutgers.edu.

Please fold and seal your postage-paid questionnaire or fax to 732-932-4545.

In order to contact you about the programs and events that interest you most we need your contact details. Please check your address label on the reverse side and make corrections as needed, then fill in your email and phone information at the right above.

Remember: you can contact us electronically and we will put your name on our invitation Master List.

Many thanks,

Susan R. Brown

Director
Office of Community Engagement

A Special Invitation for you...

The Office of Community Engagement Quad Fold Self Mailer Survey, that Detaches and Folds into a Sealed Return Envelope.

If you have questions, call 732-932-2000, ext. 4211, or email us at discovery@aesop.rutgers.edu.

We look forward to hearing from you!

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Portfolio of Work

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Office Of Communications
Portfolio of Work
The Student to Professional Internship Network affords
students at the Rutgers School of Environmental and
Biological Sciences (SEBS) the opportunity to gain
experience related to their course of study or career
interests while earning academic credits to fulfill
their SEBS experience-based education requirement.

Credits are earned through the completion of academic
assignments while the student is engaged in part-time or full-time work
experience with business, industry, government or non-profit organizations.

SEBS ACADEMIC MAJORS
Below is a full list of the academic majors offered by
the School of Environmental and Biological Sciences:

- Agricultural Science
- Animal Science
- Biochemistry
- Biological Sciences
- Biocatalysis
- Biototechnology
- Chemistry
- Communication
- Ecology and Natural Resources
- Environmental and Business Economics
- Environmental Planning and Design
- Environmental Policy, Institutions, and Behavior

For more information please contact us at:
Martin Hall, Rm 211
New Brunswick, NJ 08901
Phone: 732.932.3000
e-mail: spin@sebs.rutgers.edu
Scholarship Appreciation Dinner

October 5, 2009

Douglass Campus Center,
New Brunswick, New Jersey

4 p.m. to 5 p.m. (Meet and Greet)
5 p.m. to 6 p.m. (Photos and Dinner)
6 p.m. to 6:30 p.m. (Program)

Please plan to join us and our scholarship recipients for a sit-down dinner and brief program as we thank you for your support of the School of Environmental and Biological Sciences.

Please contact Rachel Napier at 732-932-9000, ext. 593 or email: supportsebs@aesop.rutgers with any questions.

*Formal invite with RSVP information to follow.*

---

Dear Ms. Trippodi,

February 4, 2010

The Rutgers Equine Science Center has received a donation in memory of Mackinac (Sweetie) from Sandy Denarski. On behalf of all of us here at the Equine Science Center, please accept our condolences on your loss.

We hope that you will take comfort in the knowledge that this generous gift will assist the Equine Science Center in its work to help horses through research into horse health and well-being. Please be assured that your beloved dog will live on in our work.

Moreover, Mackinac will be listed on a special area of the Equine Science Center website dedicated to the many horses and pets that have left an impression on someone’s heart. Feel free to visit www.esc.rutgers.edu/giving_honor_roll.htm. We hope that taking a moment to visit “Sweetie” on the website will bring you fond memories of your time together.

Sincerely,

Dr. Karyn Malinowski
Director

---

Scholarship Appreciation Dinner Save the Date Post Card

---

Equine Condolence Card Layout for Laser Writer Printers
Each year, your support allows us to grant more than 750 scholarship awards to students in the School of Environmental and Biological Sciences. For most students, your scholarship allow them to focus less on how to pay for college and more on excelling in their studies. It also allows our school to continue to attract and reward our best and brightest students, who we fully expect will do great things later in life with the knowledge and experience they gained in our programs.

Please join us for this year’s dinner and a brief program where you will meet and get to know our most deserving scholarship recipients.

We look forward to having you join us.

Monday, October 5, 2009
Trayes Hall, Douglass Campus Center
(on the Cook/Douglass Campus)
100 George Street, New Brunswick, New Jersey 08901

4:00 – 5:00 p.m. Meet and Greet with students and Dean Goodman
5:00 – 6:00 p.m. Dinner
6:00 – 6:30 p.m. Program

Dinner Choices:
Sauteed Chicken with Mushrooms and Leeks in a Wild Mushroom Sauce or Pan Seared Halibut with a Maple Beurre Blanc sauce.
(Vegetarian selection available by request.)

Please RSVP your attendance, along with your dinner choice by September 21, 2009, by emailing us at supportSEBS@aesop.rutgers.edu or by calling 732-932-9000, ext. 572.

We will be scheduling time for all scholarship supporters and their students to be photographed together. If you will not be in attendance for the entire event, please let us know so we can properly schedule a time for you to have your picture taken.

If you would like, you may call us two weeks prior to the event to find out if your scholarship recipient(s) will be attending and which students will be at your table.
Water Testing Laboratory Post Card.

RUTGERS
New Jersey Agricultural Experiment Station

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NJ DEP Certified in:
Nutrient, Bacteria, Analyze Immediately, and Inorganic Parameters

Visit us at ecocomplex.rutgers.edu/watertestinglab
Certificates for Students.

Certificate in
Environmental Geomatics

Awarded to
Stephen Hobbs
Class of 2008 on May 1, 2009

Robert M. Goodman, Executive Dean

Rutgers
The State University of New Jersey

Business Card Layout

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Founding Director
New Jersey Institute for Food, Nutrition and Health
Rutgers, The State University of New Jersey
63 Dudley Road, Suite 122
New Brunswick, NJ 08901-8520
p. 732-932-8306, ext. 320 f. 732-932-8690
director@ifnh.rutgers.edu

Rutgers University
Judy Hecht
Executive Administrator
New Jersey Institute for Food, Nutrition and Health
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Rutgers University
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grillo@aesop.rutgers.edu

Rutgers University
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88 Lipman Drive
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Check-in Here to Win an iPod

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and the
Office of the G.H. Cook Campus Dean

Drawing Times:
4:30 P.M.
5:30 P.M.
Must be present to win.

Designed by Kevin Paccione
### Photo’s Release Form Re-Design

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**Office of Communications**

**Adult RELEASE**

I give Rutgers permission to record my image and/or voice and grant Rutgers all the rights to use these recordings or photographs in any medium for educational, promotional, advertising, or other purposes that support the mission of the university.

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If you’ve ever wondered (or been asked!) “Why is the sky blue?” or “Where did I come from?,” biochemist Nick Lane has the answers.

Lecture and Book Signing
TUESDAY Oct. 20th, 2009, 7 P.M.
Special Events Forum, 1st Floor
Edward J. Bloustein School of Public Planning and Policy
33 Livingston Avenue, New Brunswick, NJ 09901

Nick Lane is a biochemist and honorary reader at University College London. His books include Life Ascending, Power, Sex, Suicide, and Oxygen, and he’s been described by Nobel Laureate Frank Wilczek as “a writer who’s not afraid to think big, and think hard.” Lane’s current research is on the constraints imposed by chemiosmosis in the origin and evolution of the eukaryotic cell.

The lecture, reception, and book signing are open to the public and free of charge. Reservations are a must; please phone 732-932-2000, ext. 4205, or email discovery@aesop.rutgers.edu by October 9, 2009.

Dr. Lane’s lecture will focus on “The Great Inventions of Life.” This presentation, especially timely during the 150th anniversary of the publication of Darwin’s Origin of the Species, will focus on key issues of evolution. For example, the evolution of complex traits, like the eye, is often held to be the greatest challenge to natural selection, especially at the molecular level. In fact, some of these “inventions” illustrate the sheer ingenuity of selection better than anything else. In this public lecture, Lane will consider what some of the most celebrated inventions of life can tell us about the workings of evolution.

Nick Lane is a biochemist and honorary reader at University College London. His books include Life Ascending, Power, Sex, Suicide, and Oxygen, and he’s been described by Nobel Laureate Frank Wilczek as “a writer who’s not afraid to think big, and think hard.” Lane’s current research is on the constraints imposed by chemiosmosis in the origin and evolution of the eukaryotic cell.

Previous books
Oxygen (2002)
“Book of the Year” by The Sunday London Times
Power, Sex, Suicide (2005)
“Book of the Year” by The Economist

RESERVATIONS ARE A MUST
The lecture, reception, and book signing are open to the public and is free of charge.
please phone 732-932-2000, ext. 4205
or email discovery@aesop.rutgers.edu
by October 9, 2009
Environmental Steward Training Tri-Fold Brochure Revise.

Cooperative Extension
in cooperation with
DUKE FARMS
presents the
Environmental Steward Training Program
Winner - Governor’s Environmental Excellence Award for Environmental Education 2007

Providing Training and Experience to Solve Environmental Problems in New Jersey

Rutgers Environmental Stewards
Graduates of this program become knowledgeable about the basic processes of earth, air, water, and biological systems. They increase awareness of techniques and tools used to monitor and assess the health of the environment. They gain an understanding of the research and regulatory infrastructure of state and federal agencies operating in New Jersey that relate to environmental issues. They are also given an introduction to group dynamics and community leadership.

For more information, visit us at envirostewards.rutgers.edu

For current information visit us at envirostewards.rutgers.edu

Alumni Association
Upon commencement, Rutgers Environmental Stewards automatically become members of the Rutgers Environmental Stewards Alumni Association (RESAA). They have access to the RESAA website to share updates and information, networking opportunities, and success stories. They can be recognized for their on-going environmental activities, share expertise and participate in continuing education at periodic meetings.

Comments from our students:
“This course has given me the confidence to be able to find information that will help solve these environmental issues.”

“This information has enabled me to better be a source of information for stewardship of a watershed basin.”

“This course has allowed me to leave an impact on environmental issues through getting involved with local organizations.”

Offspring of the Master Gardener Program
The Rutgers Environmental Stewards Program is a descendant of the popular Rutgers Master Gardener Program. One of the most significant differences however is Environmental Stewards may complete their training serving as interns for non-profit and governmental organizations, in addition to the interning with faculty staff at the New Jersey Agricultural Experiment Station (NJAES).

If you are interested in becoming a Rutgers Environmental Steward, please contact one of the following sites:

Central/Duke Farms
Training Location: Duke Farms, Hillsborough, NJ
Class Time: Tuesdays, January to June
Contact: Terri Lee, rlee@dukefarms.org, Duke Farms Foundation, 80 Route 206, Hillsborough, NJ 08844, 908-243-3606

Essex/Metro
Training Location: Essex County Environmental Center, Roseland, NJ
Class Time: Thursdays, January to June
Contact: Jan Zientek, zientek@rutgers.edu, Rutgers Cooperative Extension of Essex County, 621-A Eagle Rock Ave., Roseland, NJ 07068, 973-246-2240

Delaware Region
Training Location: Rutgers EcoComplex, Columbus, Delaware
Class Time: Mondays, January to June
Contact: Laurie Magee, Images@laurie.rutgers.edu, Rutgers EcoComplex, 2100 Thames-Chincoteague Road, Bordentown, NJ 08505-4520, 609-499-5000, ext. 221

Shore Region
Training Location: Atlantic County Utilities Authority, 6701 6th Street, Egg Harbor Township, NJ
Class Time: Wednesdays, January to June, 2008
Contact: Amy Moreda, amoreda@acua.com, P.O. Box 91, Pleasantville, NJ 08232, 609-275-6930, ext. 9934

Summer Session
Cape May County, location and dates to be determined.
Contact: Terry Carver, tcarver@njaes.rutgers.edu, 4 Moore Road, Cape May Court House, NJ 08210-1861, 609-465-5115
Order Yours Today!

Now you can recapture From Our Farms—the award-winning nutrition and education program for 3- to 9-year old children and their families—in your community. Purchase a From Our Farms curriculum to teach families how to eat more fruit, vegetables, and low-fat dairy foods; select locally grown agricultural products; support local farmers; and promote family literacy.

The curriculum cost is $60 and it includes all the tools you’ll need to start your own From Our Farms learning box project:

- Curriculum Guide featuring a project overview, sample Family Fun Pages and Activity Sheets, tips for funding the project, and a detailed list of coordinating instructional materials and storybooks.
- CD-ROM featuring PDF files of the fruit, vegetable, and dairy Fun Pages and Activity Sheets so you can print From Our Farms materials and use them right away.
- CD-ROM featuring Microsoft Publisher files of the fruit, vegetable, and dairy Fun Pages and Activity Sheets so you can personalize them from Our Farms materials to spotlight your state’s crops and agricultural highlights.

Visit us at gloucester.rjae.rutgers.edu
Visit our website to preview our educational materials and ordering information. At the website, click on Family and Community Health Sciences, then From Our Farms. Or, use this card to order your copy today.

From Our Farms Handout
FCHS Annual Report and County Annual Reports

Family and Community Health Sciences
School Wellness Annual Report

2008

School Wellness Program Overview

For years, FCHS has partnered with New Jersey schools to bring food and nutrition education to youth, teachers, family members, administrators, and school nurses. We know that, in order to be successful, a school wellness initiative should be creative, multi-dimensional, affordable, and manageable. This report highlights just some of the many projects and achievements of FCHS outreach in the area of school wellness.

For more information on FCHS school wellness programs, please visit our website at njaes.rutgers.edu/fchs.

Results

100% of children (n=50) would try at least one of the new foods; 60% of children (n=30) would try at least one of the new beverages; 40% of children (n=20) would try at least one of the new snacks; and 40% of children (n=20) would try at least one of the new activities.

Program Goals

- Increase fruits, vegetables, and low-fat dairy consumption
- Support local farmers
- Promote family literacy
- Increase physical activity

From Our Farms: Teaching Kids About Food, Nutrition & the Farm

Greetings from the Chair

Kathleen T. Morgan, Dr. H.H., CTR
Chair, Family and Community Health Sciences

Family and Community Health Sciences

Rutgers, The State University of New Jersey
88 Lipman Drive
New Brunswick, NJ 08901-8524
Phone: 732-932-5000

Learn more about Family and Community Health Sciences!
Visit our website at rjaes.rutgers.edu/health
Power Point Templates for Rutgers, SEBS, and NJAES.
Snyder Farm Anniversary Brochure
Tri-Fold Brochure.

Clifford E. and Melda C. Snyder
Research and Extension Farm

CONTACT
Clifford E. and Melda C. Snyder
Research and Extension Farm
140 Somerset Grove Road
Pittstown, New Jersey 08867
908-730-5413
snyderfarm.rutgers.edu

John Grande
Director of Farm Programs, NJAES
pedagogy@njoeas.rutgers.edu

Edwin Dager
Research Farm Supervisor

Robert Hume
Soils & Plants Technician

James Pach
Soils & Plants Technician

Gerry Stiller
Soils & Plants Technician

Henry Barchetti
Soils & Plants Technician

Joanne Stofny
Administrative Assistant

HISTORY
Clifford, a 310-acre farm in Flemington, Hunterdon County, was owned by Clifford E. and Melda C. Snyder. Clifford was a nationally-known figure in agriculture and a Hunterdon County Board of Agriculture member for more than 30 years. His wife Melda was a long-time educator and New Jersey Farm Bureau member. Upon her death in 1937, Melda Snyder bequeathed "Cliffeld" to Rutgers Cook College and the New Jersey Agricultural Experiment Station (NJAES). Today the farm is known as the Clifford E. and Melda C. Snyder Research and Extension Farm, Rutgers Center for Sustainable Agriculture in 1989.

Over the years, the Snyder Farm has focused on improving the quality of life for New Jersey farmers and residents through an integrated program of scientific research, public education and outreach.

RESEARCH
The Clifford E. and Melda C. Snyder Research and Extension Farm encourages, supported to respond to the agricultural and environmental needs of New Jersey. As part of the New Jersey Agricultural Experiment Station, the Snyder Farm promotes an integrated program of scientific research that serves to keep New Jersey farmers profitable while promoting environmental stewardship of our farmland and open space. Experiments conducted in the farm includes studies on sustainability of cropping systems, natural resource management and development of business tools that impact to New Jersey's unique agricultural needs.

Research Activities Include:

- Integrated pest management
- Organic crop production
- Soil fertility
- Water quality
- Forest and wetland plants
- Forage crops for horses and cattle
- Tree fruit and vegetable crops

Research Highlight:
The USDA-funded tomato disease forecasting system developed at the Snyder Farm allows growers to effectively implement integrated pest management for disease and pest control.

OUTREACH
Over the years, the Snyder Farm has focused on improving the quality of life for New Jersey farmers and residents through an extensive program of public education and community outreach.

The farm disseminates its broad-based agricultural and environmental expertise to farmers, landowners and agricultural educators as a means of improving the average New Jersey resident’s knowledge, interest, decision-making, economic and environmental benefit for New Jersey's farmers.

Outreach Activities Include:

- Statewide pest management information service
- Wildlife, natural area maintenance
- Contract weed management
- Community teaching garden
- Annual farmers’ field day

Outreach Highlight:
The CTSD-funded tomato disease forecasting system developed at the Snyder Farm allows growers to effectively implement integrated pest management for disease and pest control.
Get Moving—Get Healthy New Jersey

Behaviors of Get Moving - Get Healthy New Jersey (GMGHNJ)

1. Increase consumption of fruits and vegetables
2. Have more family meals together
3. Increase physical activity
4. Decrease portion sizes
5. Decrease screen time (computer, TV, video games)
6. Decrease consumption of sugar-sweetened beverages

Get Moving - Get Healthy New Jersey

In a statewide campaign sponsored jointly by Family and Community Health Sciences and 4-H Youth Development, to promote healthier lifestyles for youth and adults by improving food choices and increasing physical activity.

Here is what GMGHNJ offers:

• A website that provides tips on healthy eating, family meals and physical activity
• An online virtual walking program
• School Wellness programs to promote better nutrition and more physical activity
• Children’s Health Summits that highlight the latest research on nutrition and health
• Building Healthy Kids Coalitions help community organizations to promote healthy lifestyles for families
• GMG partnering with New Jersey 4-H to provide hands-on learning activities for youth

RU healthy?

Visit the website or contact your local Cooperative Extension office for more information at 732-932-5000, ext. 1

Cooperating Agencies: Rutgers, The State University of New Jersey, U.S. Department of Agriculture, and County Boards of Chosen Freeholders.

Rutgers Cooperative Extension, a unit of the Rutgers New Jersey Agricultural Experiment Station, is an equal opportunity program provider and employer.

www.getmovinggethealthynj.rutgers.edu
The University Human Resources (UHR) Professional Development Program is committed to providing creative and high quality learning programs for Rutgers employees. We provide programs and services that help employees improve their work performance. The Professional Development Program, in partnership with other Rutgers units, anticipates the university’s diverse and changing employee development needs. Learn more and take advantage of these opportunities by visiting our website at uhr.rutgers.edu/ld/ProfDev.htm.

For Employees
Programs are offered in multiple learning formats including single session courses, seminars, and extended learning programs. Browse our course listings at uhr.rutgers.edu/profdev/script/AllWorkshop.asp or call us for assistance in identifying courses or series that will best meet your needs. Once you complete your first course, UHR will maintain an online Professional Development Transcript for you that will track your accomplishments.

For Departments
Customized programming can address an organization’s training and development goals with targeted programs to meet the unique requirements of a unit, department, team, or group. Facilitation services are available to ensure meetings, retreats, and conferences are productive and efficient. A trained facilitator can help your group to follow its agenda and avoid unfocused discussions, unnecessary conflict, and emotionally charged issues. Find out more about at custom program and facilitation services at uhr.rutgers.edu/ld/PDUHRFacilitationservices.htm

University Human Resources
Professional Development Program Card

Program offerings
Single session courses cover a very broad variety of subjects including communication, interpersonal relationships, employee management, business skills, university regulations, leadership, and more. For a listing of current programs offered on the Camden, Newark, and New Brunswick campuses, visit our online calendar at uhr.rutgers.edu/profdev/calendar.asp

Extended learning programs provide comprehensive coverage of topics focused on specific job skills and core competencies. Visit us at: uhr.rutgers.edu/ld/PDCertificateandExtLearningProgs.htm for more information.

• Academic Personnel Certificate Program
• Business/Accounting Certificate Program
• Communicator Certificate Program
• Management Development Program
• Professional Work Skills Program
• Supervisor Development Program

Professional Development Updates
Join our mailing list to receive the Professional Development Update, which offers information about professional development programs, leadership articles, resources that support professional development, and tips on workplace excellence. Subscribe online at uhr.rutgers.edu/PDlistserv.

Contact Us
University Human Resources
Professional Development Program
57 U.S. Highway 1, New Brunswick, NJ 08901
Phone: 732-932-3020, ext. 4070
Email: Profdev@hr.rutgers.edu
Web: uhr.rutgers.edu/Profdev

Rutgers, The State University of New Jersey, is dedicated bylaw and by purpose to serving all people on an equal and nondiscriminatory basis.
17th Annual Awards Dinner

School of Environmental and Biological Sciences
New Jersey Agricultural Experiment Station

A Celebration of Excellence!

04. 19. 10. Monday . 5:00 p.m.
Cook Campus Center

17th Annual Awards Dinner Program Updated

RUTGERS

17th Annual Awards Dinner

A Celebration of Excellence!

04. 19. 10. Monday . 5:00 p.m.
Cook Campus Center

RUTGERS

Photo Credit: Penny Carlson

17th Annual Awards Dinner

School of Environmental and Biological Sciences
New Jersey Agricultural Experiment Station

A Celebration of Excellence!

04. 19. 10. Monday . 5:00 p.m.
Cook Campus Center

Welcome
Robert M. Goodman, Master of Ceremonies
Executive Dean of Agriculture and Natural Resources

School of Environmental and Biological Sciences and the
New Jersey Agricultural Experiment Station Team Award
Presented by Robert M. Goodman

Recognition of George H. Cook Scholars
Presented by Timothy Casey
Director, General Honors Program

Research Excellence Awards
Presented by Bradley Hillman
Director of Cooperative Research

Academic Professional Excellence Awards
Presented by Jerome Kukor
Dean of Academic Programs and Research

Alpha Zeta Awards
Presented by Marina Kivker, Chronicler
John Falco, Treasurer

Rutgers Cooperative Extension Faculty Excellence Award
Presented by Larry Katz
Director of Cooperative Extension

Staff Recognition Award
Presented by Robert M. Goodman

Alumni Awards
Presented by Richard Porter
President, George H. Cook Community Alumni Association

Science Communication Awards
Presented by Robert M. Goodman

RUTGERS
Dear Friend,

It is my pleasure to invite you to the first ‘ReConnect with Rutgers Food Science’ event on April 23-24, 2010, on the George H. Cook Campus in New Brunswick, New Jersey. I hope you will join us and reconnect with friends, alumni, faculty and colleagues of the Department of Food Science at the School of Environmental and Biological Sciences at Rutgers, The State University of New Jersey.

The Friday (April 23rd) afternoon event will focus on networking among alumni, students, current and retired faculty, and guests, followed by a sit-down dinner, a Food Science update, reminiscences from past to present, and a demonstration by a noted local chef/alumnus.

The Saturday activities will include a continental breakfast and presentations on research in Food Science at Rutgers by key faculty members. Alumni and friends will then adjourn to enjoy Rutgers Day/Ag Field Day activities.

For more information, please contact Paulette Arico at 732-932-9611, ext. 202 or arico@aesop.rutgers.edu.

Please join us in making this the alumni event of the year!

Mukund Karwe, Chair
Department of Food Science
karwe@aesop.rutgers.edu

Friday, April 23, 2010

Cook Campus Center
59 Biel Road, New Brunswick, NJ 08901
Parking will be available in Lots 99C and 99D located on Biel Road

3:30 p.m. ................................................. Registration and Reception
2nd Floor: Enjoy wine, cheese, and hors d’oeuvres while reconnecting with colleagues, students, and faculty

5:30 p.m. ................................................ Welcome and Introductions
1st Floor: MPR B & C

6:00 p.m. .................................................................................. Dinner Served
Food Science update; reminiscences from past to present

7:30 p.m. ............................................................ Chef Demonstration

8:00 p.m. ............................................................ Dessert/Mix and Mingle

Saturday, April 24, 2010

Food Science Building/CAFT Conference Room
(Parking will be available in Lot 90 until 8:30 a.m.)

8:30 a.m. .......................................................... Continental Breakfast

9:00 a.m. ...................... Presentations, Award Ceremony, and Tours

11:00 a.m. ....................................... Enjoy Rutgers Day/Ag Field Day (and Food Science Ice Cream)

Lodging

For your convenience, a block of rooms is available at the following locations. Please refer to ‘ReConnect with RU Food Science’ when making your reservation. Hotel rates and details are on the registration website:

Heldrich Hotel
New Brunswick
732-729-4610

Hyatt Hotel
New Brunswick
732-873-1234

Hampton Inn
North Brunswick
732-246-3555

We wish to thank the following companies for their support of this event:

Frito Lay, Mars Chocolate, Pepsi, Unilever, Campbell’s/Pepperidge Farm, and IFF
ReConnect with Rutgers Food Science RSVP.

ReConnect with Rutgers Food Science
April 23-24, 2010

Name: _____________________________________________________
Rutgers graduation degree/year: ________________________________
Address: ____________________________________________________
____________________________________________________
Email: ____________________ Contact Phone: ____________________

Friday, April 23, 2010
Dinner at the Cook Campus Center

☐ Yes, I plan to attend.
Dinner selection is: ☐ Chicken ☐ Fish ☐ Vegetarian
Additional Guests:
Name: ______________________________________________________
Dinner selection is: ☐ Chicken ☐ Fish ☐ Vegetarian
Name: ______________________________________________________
Dinner selection is: ☐ Chicken ☐ Fish ☐ Vegetarian
Please indicate additional names on reverse side, if needed.

Saturday, April 24, 2010
Breakfast at the Food Science Building/CAFT Conference Room

☐ Yes, I plan to attend the breakfast and activities
☐ Total guests attending

A contribution of $25 per person made payable to Rutgers University
is kindly suggested. Total enclosed $ __________________________
☐ I am unable to attend, but enclosed is my donation to the
Department of Food Science in the amount of $ __________________
Credit card payments: ☐ Visa ☐ Mastercard Amount: ___________
Cardholder name: ____________________________________________
(cardholder name)
Card number: _______________________________________________
Exp. date (mm/yyyy): ____________ Billing zip code: ______________
Signature: ___________________________________________________
(please print)

(Place in enclosed return envelope, stamp, and mail, thank you.)
embrace throughout his life. Recently, Elizabeth achieved an MAT in Biology, taught high school biology and is currently seeking a postgraduate certification in Nutrition and Exercise Physiology.

Jennifer S. Off

In August 2006, Jennifer’s cousin, Lu Off, proposed starting a scholarship in memory of her father, George Allen Off, II (“Allen”), and Jennifer’s father, Robert Scott Off (“Scott”). Allen grew geraniums for wholesale in Northfield, New Jersey, and passed away in 2006. Scott grew orchids wholesale also in Northfield and passed away in 2006. I did some research and found Rutgers School of Environmental and Biological Sciences. We decided to host a golf tournament to fund a scholarship for a local financially needy student at SEBS interested in plant science. At this point Lu’s sister, Sally Foder, joined the crusade, and last year their sister, Janice Ireland, also became more involved with the tournament. Both Allen and his other brother, Frank Scott Off (“Frank”), grew tomatoes and geraniums on the advice of Rutgers. Our grandfather, George Allen Off (“George”), a world-renowned forester in the hybridization of cattleya orchids, had worked with Dr. Davidson of Rutgers on the advancement of hybridization as well as seedless tomato farming, something his greenhouse had to do to remain open during World War II. George taught Scott the art of hybridization and Scott cultivated “Sc. Jennifer Off, Var. Joan AOS/AM,” which is pictured with me with Frank’s geraniums in the background. The inaugural golf tournament allowed us to fund two students. The second tournament did the same and now we are working our way toward an endowed fund. The Allen and Scott Off Scholarship Fund is now a 501(c)(3) non-profit organization and will continue to “Keep the Flowers Growing.”

Stephanie A. Alea

Stephanie graduated from County College of Morris in May of 2008 with an AAS in Turf and Turf Management. She decided to pursue a four-year degree in Plant Science at Rutgers, The State University of New Jersey. Her academic studies focus on plant protection as they apply to turfgrass and ornamental systems. Stephanie’s current goal is to apply for graduate school in the Plant Biology program at Rutgers in the fall of 2010. She is an independent student and receives no financial support from her parents. Stephanie is able to attend school full time due to a combination of federal grants, loans, scholarships, and working part time for Dr. Hart, Rutgers’s Weed Science Specialist. Receiving support from scholarships has allowed her to spend more time dedicated to her studies, rather than obtaining additional part-time employment.

Paul Redpath-Perez

Paul Redpath-Perez is a junior studying environmental sciences at the Rutgers School of Environmental and Biological Sciences. In addition to his full-time course load, he works an average of 16 hours a week to support his tuition. Paul is a member of an international organization called “Step 1 Up,” that is dedicated to promoting “green” policy that helps the environment. Last year he initiated an independent research project that involved educating residential students to increase their recycling efforts. Paul spoke to various university faculty and staff to request increased visibility of the recycling option so students would use them. This resulted in the placement of additional recycling bins around the Newell Apartments. The cornerstone of the project was a presentation in the student center where he educated the group and discussed the accomplishments of the project. Next year, Paul plans to participate in the EPA Region 2 summer internship program. He also hopes to continue his education through the Environmental Sciences masters program. Post graduation goals include working for the Environmental Protection Agency or the New Jersey Department of Environmental Protection to test soil, water, and air for impurities in order to improve the ecosystem for humans and other organisms.
Calling All Students, Faculty, and Staff!

What RU Doing March 4th?

Come Celebrate Scarlet’s Great Adventure
Thursday, March 4, 2010
12:30 to 2 p.m.
Rutgers Student Center, College Avenue Campus

Help the University celebrate the extraordinary first crossing of the Atlantic Ocean by an autonomous underwater robot. The “Scarlet Knight” (RU27), an unmanned, battery-powered glider successfully crossed from Tuckerton, New Jersey, to Baiona, Spain, in 221 days under the guidance of students and faculty of the Institute of Marine and Coastal Sciences. Scarlet’s mission advances our ability to understand global climate change.

You are invited to join the celebration, meet and talk with the faculty, students, and staff who made the Atlantic crossing possible, see and touch the glider, and view dramatic documentary footage chronicling the event.

FEATURING:
President McCormick, students and leaders of the glider and documentary teams.

Refreshments will be served.
Scarlet's Great Adventure Event Program.

Celebrate Scarlet's Great Adventure
School of Environmental and Biological Sciences

Scarlet Knight RU 27
03. 04. 10. Thursday, 12:30 p.m.
Rutgers Student Center

The Atlantic Crossing

The world's ocean is the last great wilderness on earth. In its great depths, still largely unexplored, are the heat engine of the globe, swirling endlessly to distribute heat from the torrid tropics to the chilly poles. Climate change, the great challenge of our age, is linked to and influenced by this heat engine. Understanding and predicting our planet's future requires that we finally and thoroughly map the ocean. But how?

Scientists at the Coastal Ocean Observation Lab, the COOL room at the Institute of Marine and Coastal Sciences at Rutgers, are developing new technologies for ocean exploration and data collection. Collaborating closely with scientists at Teledyne Webb Research, they are using Slocum gliders, unmanned, autonomous underwater vehicles, to collect geophysical data about the world's ocean, data that can be used to better model and predict our planet's uncertain future.

The development of a complex new technology is never easy. Today we come together to recognize and celebrate a significant milestone in the development of this new technology for exploring our planet's ocean. During spring, summer and fall of 2009, scientists and undergraduates from Rutgers successfully "flew" a Slocum glider, RU27 the "Scarlet Knight," from Tuckerton, New Jersey to Baiona, Spain. Launched on April 27, and, propelled onward by falling and rising through the ocean's depths, Scarlet made safe landfall on December 9 in Baiona, the first European port of call for Columbus' ship La Pinta on her return from the new world in 1493.

Scarlet's successful voyage demonstrated convincingly the potential of Slocum gliders for extended scientific exploration of the world's ocean.

But Scarlet's voyage is special for another reason. A collaboration between scientists at the COOL room and documentary filmmakers at Rutgers' Writers House has generated a unique video record of the entire transAtlantic mission from initial planning on the George H. Cook Campus to final pick up in Baiona. Due to the artistry and hard work of these filmmakers, we can all participate in the historic Atlantic Crossing of RU27, our own Scarlet Knight.
A feature-length documentary about the first underwater robot to cross the Atlantic.

**Produced by**

Dena Seidel, Writers House

**Atlantic Crossing: A robot’s daring mission**

**The Eddy Fields:**

Finally out of the Gulf Stream, Scarlet arrives at the most difficult part of her journey, flying through tumultuous ocean storms called “eddies.” This is where Scarlet’s safety is most threatened.

**Ground-Breaking Science:**

Scarlet maneuvers through the dangerous waters of the eddy fields, collecting data that no other underwater vehicle can see. Scarlet’s findings help scientists improve models and forecasts of this vital and ever-changing area of the Atlantic basin, vital to the global scientific community.

**New Science**

“We can’t keep going to sea on boats. So, we build robots that can go to sea in place of humans.”

**Scientists, reporters, and students from around the world visit the COOL Room. RU27’s launch is being watched by an international audience.**

**3 DAY JOURNEY**

Fighting winds and 9-foot swells from Hurricane Bill, Tina and Chip search the open ocean for their robot.

“We have very little time.”

-Chip Haldeman

The scientists can see that our robot is once again covered in barnacles.

“Hold tight. It’s going to be a rough ride.”

-Jack Wolter

Scott goes out on a small motor boat to retrieve Scarlet.

“Let’s hope she can make it. We’re going to be flying straight to the Azores.”

-Sue Grieve

**On the Lookout**

After 3 days at sea, the GPS tells Chip and Tina that they are only miles from RU27. Tina is bubbling with excitement.

“Wow! It’s a moment in history!”

-Chip Haldeman

The scientists can see that our robot is once again covered in barnacles.

“Waves are rising fast. We need to hurry and get this glider on the boat.”

-Scott Glenn

Scott goes out on a small motor boat to retrieve Scarlet.

“Scarlet makes landfall in the small coastal town of Baiona, Spain.”

Scarlet has flown longer and further than any other underwater glider in history. She is delivered to the bay of Baiona where the entire town has gathered to welcome our hero.

The weather is getting worse. The captain tells the recovery team to hurry.

“Waves are rising fast. We need to hurry and get this glider on the boat.”

-Chip Haldeman

The scientists can see that our robot is once again covered in barnacles.

“Don’t lose the NOAA coin from inside the glider.”

-Aaron Grieve

Spanish school children rush to touch our heroic robot. Scarlet will always be remembered as the first autonomous robot to cross the Atlantic.

**IX. A Hero’s Welcome**

Scarlet makes landfall in the small coastal town of Baiona, Spain.

Scarlet’s historic mission will inspire a future robotic oceanographic observation network critical for monitoring and predicting climate change.
4-H Updated Get Moving—Get Healthy Portion Proportion Place Mat.
Spotlights for NJAES and SEBS.

The Rutgers Equine Science Center

Your Horse's Best Friend!

Find out why ▶

Thawing the Mysteries of the Arctic

Find out how ▶

Environmental Stewards

Turn Interest Into Action

Find out how ▶

The Real Value Meal

...Eating Together

Learn More ▶
Spotlights for NJAES and SEBS
Continued.

Designed by Kevin Paccione, layout refinement Lori Casciano

Designed by Kevin Paccione and Lori Casciano

Designed by Kevin Paccione, photoshop refinement Lori Casciano

Designed by Kevin Paccione, layout refinement Lori Casciano

Designed by Kevin Paccione
Who We Are
Career Services
Where do I go for help with my resume, interviewing skills, job search, and internship search?
The answer is...Career Services!
Students in the School of Environmental and Biological Sciences can utilize any Career Services office on the College Avenue or Busch Campuses. A career counselor also has office hours in Martin Hall on selected days of the week during the semesters. Utilize Career Services for a wide range of career-related services:

Counseling and Information Services
• Individual career counseling appointments
• Career assessments (interests, skills, values, personality)

Employment and Networking Services
• Career nights—on-campus interviewing, interview skills, and job postings, internship postings
• Alumni Career Network

Graduate School Services
• Graduate and Professional School Day

Locations
Career Center
46 College Avenue
732-932-7997
D.H. Tues. and Thurs. 1 - 3:30 p.m.
For more information, please visit us at careerservices.rutgers.edu

Career and Interview Center
Busch Campus Center
732-445-6127 Ext. 0
D.H. Mon. and Wed. 1 - 3:30 p.m.

For more information, visit us at sebsspin.rutgers.edu.

Photo credits (l. to r.): Kristin Drusjack, iStockphoto, and Jack Rabin.

Student to Professional Internship Network (SPIN)
The Student to Professional Internship Network affords students at the Rutgers School of Environmental and Biological Sciences (SEBS) the opportunity to gain experience related to their course of study or career interests while earning academic credits to fulfill their SEBS experience-based education requirement. Credits are earned through the completion of academic assignments while the student is engaged in part-time or full-time work experience within business, industry, government or non-profit organizations.

Students who participate in the SPIN program:
• Work in jobs related to their major or career goals
• Earn 3 or 6 credits per semester (maximum of 6) towards their degree
• May earn partial education costs through paid positions (some are unpaid)
• Gain valuable experience to add to their resumes
• Complete the experience-based education requirement
• Become more prepared for the job market or graduate school
• Make future professional contacts
• Can qualify positions they find on their own for credit

SPIN is committed to strengthening and expanding SEBS relationships with local and regional employers, and to providing SEBS students with a springboard from college life to career life by giving them the chance to explore and clarify career choices and goals.

Power Point Cover/Title Slide.

Samples of 8 x 8” Information Cards.
Alumni Association 4th Annual Golf Outing Program.

We know you can do it.
We believe in you.

Humorist Mark Twain had an interesting take on golf. He said, “I've been studying the game of golf pretty considerably, I guess I understand now how it's played. It's this way: You take a small ball into a big field and try to hit it to the farthest point. The ball then charges through the field, trying to outdo you by a foot, and you have to get it back. What you probably be the first to see is the boy who is carrying your bag of clubs. When you're going on long enough you usually succeed in obtaining your original object. If the boys alive you send him off to look for the ball. If the boys dead you get the ball yourself. He used to have lots of funny things to say about golf and one thing he said was this: "I'm not here to play golf, although there will be golfing and, probably, funny stories."

I've been studying the game of golf pretty considerably. I guess I understand now how it's played. It's this way: You take a small ball into a big field and try to hit it to the farthest point. The ball then charges through the field, trying to outdo you by a foot, and you have to get it back. What you probably be the first to see is the boy who is carrying your bag of clubs. When you're going on long enough you usually succeed in obtaining your original object. If the boys alive you send him off to look for the ball. If the boys dead you get the ball yourself. He used to have lots of funny things to say about golf and one thing he said was this: "I'm not here to play golf, although there will be golfing and, probably, funny stories."

He said a lot of funny things about education as well but we're not here for a Twain-fest. We're here for the ball. If he finds it the same day, you've won the game.

What's not so funny is the rising cost of higher education in New Jersey and throughout the country. It's not just tuition that is increasing. Text book prices, laboratory fees, technology assessments, and even the cost of lunch at the dining hall are higher than ever. Today's students pay dearly for the privilege of being a productive citizen and future wage-earner.

It's this way. You take a small ball into a big field and try to hit it to the farthest point. The ball then charges through the field, trying to outdo you by a foot, and you have to get it back. What you probably be the first to see is the boy who is carrying your bag of clubs. When you're going on long enough you usually succeed in obtaining your original object. If the boys alive you send him off to look for the ball. If the boys dead you get the ball yourself.

Welcome to the Cook Community Scholarship Golf Outing! This year, the Cook Alumni Association has teamed up with the Cook Parents' Association and the Vector Biology Department to bring you a great day of golf on a beautiful course. Your participation ensures that our students will continue to benefit from the outstanding academic programs that define the School of Environmental and Biological Sciences. With each putt on the course and each bid at the silent auction, you are helping another bright and motivated student bring you a great day of golf on a beautiful course. Your participation ensures that our students will continue to benefit from the outstanding academic programs that define the School of Environmental and Biological Sciences. With each putt on the course and each bid at the silent auction, you are helping another bright and motivated student.

Thank you to all those who have made this event possible, including:

Kristin Bartlett  Mike Green
Diana Carle  Ken Kamichnes
Lori Cuccino  Margaret O'Donnell
Scott Crans  Dana Price
Bruce Crawford  Lee Schneider
David Earl  Laurel Van Leer
Steve Goodman

Thank you for supporting our students.
We know you can do it.
We believe in you.

Best regards,
Robert M. Goodman
Executive Dean of Agriculture and Natural Resources
Executive Dean of the School of Environmental and Biological Sciences
Executive Director of the New Jersey Agricultural Experiment Station

G. H. Cook Community Parents & Alumni Associations
Center for Vector Biology

Welcome and Thank You!
The Cook Community Scholarship Golf Outing, sponsored by the G. H. Cook alumni and parents’ associations, as well as the Entomology Graduate Students, is in its fourth year. Our event sponsors, golfers, and volunteers are committed to supporting higher education. The alumni and parents associations award undergraduate scholarships based on financial need, academic merit, and leadership qualities. The Vector Biology Department awards graduate students with travel scholarships if they have an opportunity to present their work at a conference.

The costs of higher education in New Jersey and throughout the country are rising dramatically. It’s not just tuition that is increasing. Text book prices, laboratory fees, technology assessments, and even the cost of lunch at the dining hall are higher than ever. Today’s students pay dearly for the privilege of being a productive citizen and future wage-earner.

We believe in you! Thank you for supporting our students.

G. H. Cook Community Parents & Alumni Associations
Center for Vector Biology

Help Educate Someone for Life — Support Student Scholarships!

G. H. Cook Community Parents & Alumni Associations
Center for Vector Biology

Rutgers School of Environmental and Biological Sciences

DSinger@heroldhaines.com Dir Tel 908-647-1022
www.heroldhaines.com Dir Fax 908-647-7721
25 Independence Boulevard Warren, New Jersey 07059-6747
Fax 908-647-7721 www.heroldhaines.com

Laurel Van Leer
Lee Schneider
Dana Price
Margaret O’Donnell
Ken Kamichnes
Diana Carle
Mike Green
Lori Cuccino
Scott Crans
Bruce Crawford
Lee Schneider
David Earl
Laurel Van Leer
Steve Goodman

Hello, my name is David Earl. I am an alumni of the School of Environmental and Biological Sciences. Since graduating, I have worked in the field of environmental science and have had the opportunity to travel around the world. I am currently working as a research scientist for a company that specializes in renewable energy. My goal is to use my education and experience to make a positive impact on the environment and to encourage others to do the same. I am grateful for the support of the G. H. Cook Community Scholarship Golf Outing, as well as the support of my family and friends. Thank you for your donation to this great cause.

David Earl, Alumni of the School of Environmental and Biological Sciences

Welcome and Thank You!
The Cook Community Scholarship Golf Outing, sponsored by the George H. Cook alumni and parents’ associations, as well as the Entomology Graduate Students, is in its fourth year. Our event sponsors, golfers, and volunteers are committed to supporting higher education. The alumni and parents associations award undergraduate scholarships based on financial need, academic merit, and leadership qualities. The Vector Biology Department awards graduate students with travel scholarships if they have an opportunity to present their work at a conference.

The costs of higher education in New Jersey and throughout the country are rising dramatically. It’s not just tuition that is increasing. Text book prices, laboratory fees, technology assessments, and even the cost of lunch at the dining hall are higher than ever. Today’s students pay dearly for the privilege of being a productive citizen and future wage-earner.

Enjoy your game and know that your participation today makes our scholarship efforts possible.

Thank you for supporting our students.

Robert M. Goodman
Executive Dean of Agriculture and Natural Resources
Executive Dean of the School of Environmental and Biological Sciences
Executive Director of the New Jersey Agricultural Experiment Station

Please see the attached image for more information on the Cook Community Scholarship Golf Outing.
Metal Sign Layout

RUTGERS
THE STATE UNIVERSITY
OF NEW JERSEY

Hutcheson Memorial Forest
Research Facility – Nature Preserve

NO TRESPASSING

Contact: 732-932-9631

Produced by Kevin Paccione
4-H Website Design, Work in Progress.

Welcome to the official website of the New Jersey 4-H Program! 4-H has something for just about everyone, whether they live in a city or in the country. 4-H is where they turn to learning and growing. Every kid can join a 4-H club, go to camp, or enter a fair. There are lots of exciting activities. From animals to circus, 4-H offers great learning and building skills. Adults and 4-H leaders can volunteer to help youth learn and have fun. Enjoy browsing through this web site, you may be surprised at all that 4-H has to offer.
President and Mrs. Richard L. McCormick Invite you to a Welcome Reception in honor of

Peter J. Gillies
Founding Director
New Jersey Institute for Food, Nutrition and Health

Wednesday, April 14, 2010
4:30 p.m. – 6:30 p.m.

President’s House
on the Busch Campus
Piscataway, New Jersey

Peter Gillies has had a distinguished 30-year career as a scientist in the private sector. He is a recognized expert in lipid and lipoprotein metabolism with long-standing research interests in the fields of toxicology, cardiovascular drug discovery, and molecular nutrition. In recognition of a sustained career of scientific contribution and leadership, DuPont made Dr. Gillies a “DuPont Fellow” in 2008, its top scientific rank and one held by only 12 other scientists in the company. Throughout his career, he maintained adjunct professorships with major universities including the Pennsylvania State University and the University of Toronto, where he supervised Ph.D. students and postdoctoral fellows. His strong ties to scientific and professional networks and his prominence in the field of nutritional genomics make him an invaluable addition to the university.

Please join me in welcoming Professor Peter Gillies and his wife, Dr. Rayanne Gillies, to our Rutgers community.

RSVP by April 7, 2010
segarra@oldqueens.rutgers.edu
or call the President’s Office at 732-932-7499

Directions and Map Attached
Pre-emptive Nutrition in the Management of Health

Implications for the New Jersey Institute for Food, Nutrition and Health

Executive Dean’s Distinguished Lecture featuring

Peter J. Gillies
Founding Director
New Jersey Institute for Food, Nutrition and Health

In his lecture, Dr. Gillies will present a multi-dimensional interdisciplinary model of molecular nutrition.

In March of 2010, Dr. Peter Gillies joined Rutgers as a Professor in the Department of Nutritional Sciences and as the Founding Director of the New Jersey Institute for Food, Nutrition and Health. Peter holds a Ph.D. in Medical Sciences and has long-standing research interests in the areas of lipid and lipoprotein metabolism, cardio-inflammatory disease, molecular nutrition, and nutritional genomics. Peter is an elected Fellow of the American Heart Association, the Society of Toxicology, and a member of the American Society of Nutrition and the National Lipid Association. Prior to coming to Rutgers, Peter had a distinguished career at DuPont working in the areas of cardiovascular drug discovery, agricultural biotechnology, consumer health, functional foods and dietary supplements. While at DuPont, Peter held Adjunct Professorships at Penn State and the University of Toronto where he supervised students and post-doctoral fellows. Peter’s broad-based expertise and professional networks uniquely position him to build one of Rutgers newest Institutes.

Sponsored by the Office of the Executive Dean of the School of Environmental and Biological Sciences

Light refreshments and wine provided through private funding.
Awareness – what are the accomplishments of the New Jersey Agricultural Experiment Station.

These stories live among our students (3,000), our faculty and staff, and our campus community. They are a part of the learning and sharing that is fundamental to the work of the School of Environmental and Biological Sciences and the New Jersey Agricultural Experiment Station.

Understanding – appreciating the role of the school, the university, and its mission.

It is our goal, through a program we are calling the “Discovery Initiative,” to find and connect with these stories and share them with one another and with the public so that all will know what their university is doing today and how it connects to their lives.

There are 23,019 stories within our campus community, each of which illuminates the strength, value, and impact of the academic experience here.

It is our goal, through a program we are calling the “Discovery Initiative,” to find and connect with these stories and share them with one another and with the public so that all will know what their university is doing today and how it connects to their lives.

A three-tiered goal drives this new Discovery program:

- **Awareness** – what are the accomplishments of the campus community?
- **Understanding** – appreciating the role of the school, experiment station and university in society.
- **Engagement** – forcing faculty and students to reexamine their relationship with the community.

The Discovery Initiative will strive to make fully engage all who have ties to the school, the experiment station, and the university. It will create opportunities for reconnecting, for inspiration, for mentoring, and for a general sense of belonging.

Why “Discovery”? Discovery is at the heart of the mission of a research university. Indeed, discovery is the heart of education and even life itself. Scientists make discoveries in their laboratories, but on the way, they discover something about themselves, about their students and surrounding communities. That is discovery, that is the thrust of the Discovery Initiative.

As an initiative of the Discovery Initiative, Rutgers Energy Institute (REI) was established to integrate the university’s expertise in science, engineering, economics, and policy as it relates to energy research.

REI is working toward the goal of establishing Rutgers University as a national center of excellence for applied research regarding energy policy.

As one of America’s premier research universities, Rutgers has the faculty “brainpower” and resources to find and explore new alternative energy sources.

For more information, contact discovery@aesop.rutgers.edu.

Office Of Communications
Portfolio of Work

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Rutgers operates the most advanced coastal observatory in the world. Scientific sensors in space, on shore, and under the sea monitor, model, and forecast, the underwater weather for the Mid-Atlantic coast.

Rutgers develops new ocean observing technologies, tracks an international array of ocean remote sensing satellites, maintains a continuously operating network of shore-based radars, and deploys a growing fleet of underwater robots to monitor the infrastructure needs of the state, country and the international community. Data depicting the present state of New Jersey’s coastal features from this diverse set of ocean observing platforms are publicly distributed on the World Wide Web (www.rutgers.edu/codar).

Rutgers is a regional center of excellence for applied research regarding energy policy. Rutgers Energy Institute (REI) was established to integrate the university’s expertise in science, engineering, economics, and policy as it relates to energy research, with the long-term goal of providing innovative technological advances that could help the United States to reduce its dependency on fossil fuels. The virtual institute—no bricks and mortar, just people and ideas—has already made strides in pulling together interdisciplinary teams of researchers.

Biofuels

The conversion of organic matter to biofuels is an emerging area of research at Rutgers. Numerous types of natural and man-made carbon materials are potential biofuel sources. Current studies at Rutgers are focused on the production of natural sources of cellulosic feedstocks such as switchgrass, and on the potential use of domestic and industrial solid waste streams.

Energy Policy

Rutgers Energy Institute is actively engaged in the study of the application and impacts of new energy technologies as they emerge. Scientists are conducting applied research to evaluate and help develop energy policy at the state, regional, national, and international levels. By collaborating with policy experts and stakeholders in the private, public, and nonprofit sectors throughout the region and across the country, REI is working toward the goal of establishing Rutgers University as a national center of excellence for applied research regarding energy policy.

Wind Energy

Wind energy can provide a renewable substitute to coal or oil. In areas where winds are common, turbines can harness and convert wind energy into electricity that can contribute to local power grids. Coastal areas, such as the Jersey Shore, tend to have high winds, although the predictability of coastal winds is less certain compared with mountain areas. Oceanographers and meteorologists from Rutgers have been working with the State of New Jersey and PSE&G to improve predictive capabilities of coastal winds on the Jersey Shore and in the Delaware Bay. The results of the Rutgers Offshore Wind Analytics are being used to plan wind turbine sites and to help allocate wind energy utilization during peak winds. Wind energy is an ideal renewable, widely available energy source.

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