Office Of Communications
Portfolio of Work ‘08 - ’09
Office of Communications
Ag Field Day Event Schedule

Alumni Meet and Greet
Environmental Health & Safety
Time: 1:00 p.m. to 3:00 p.m.
Dining Services, Student Health Services, Equity and Compliance Services, Career Services
Stop by the Alumni Association greets area near the Rockefeller Conference Center to talk with new and old friends, enjoy food and beverages, and get to know our staff. Network with the alumni association members for Cook and Rutgers industrial gift shops.

Coastal Ocean Observation Laboratory
Environmental Health & Safety
Time: 10:00 a.m. to 12:00 p.m.
An underwater glider will be released in Passion Puddle to race the ocean so that you get your maximum enjoyment out of it. An underwater glider will be released in Passion Puddle to race the ocean so that you get your maximum enjoyment out of it.

Eye Puppy Club
Entomology Department
Time: 10:00 a.m. to 12:00 p.m.
Come see the New Jersey 4-H Dog Show with Seeing Eye Puppies, guide dogs, puppies, and information about the New Jersey 4-H Dog Show with Seeing Eye Puppies, guide dogs, puppies, and more. Our goal is to help dog lovers learn about this marvelous partnership.

Flower Sale/Question and Answer Booth
Entomology Department
Time: 10:00 a.m. to 12:00 p.m.
Flower Sale/Question and Answer Booth offers a huge assortment of vegetable, herb, and flower transplants ranging from annuals, perennials, and specialty plants. Student clubs and organizations have put together a wide variety of vendors, food and drink sales, T-shirt sales, contests, activities, and giveaways.

Food Science Community Network Gathering
Food Science Department
Time: 10:00 a.m. to 2:00 p.m.
The 7th Annual Rutgers Food Science Community gathering will provide 8 different activity stations to encourage learning about everything from climate change, to microbes in the ocean, to the role that supports the Mounted Patrol. Have your child’s face painted and purchase a flower to plant it in the field. This is the perfect event for families looking for fun activities for children.

Food Science Community Network Gathering
Food Science Department
Time: 10:00 a.m. to 2:00 p.m.
Come see the New Jersey 4-H Dog Show with Seeing Eye Puppies, guide dogs, puppies, and information about the New Jersey 4-H Dog Show with Seeing Eye Puppies, guide dogs, puppies, and more. Our goal is to help dog lovers learn about this marvelous partnership.

Ocean Science Education Activities
Spencer Department of Marine and Coastal Sciences
Time: 10:00 a.m. to 12:00 p.m.
Attach your name to a tabulated book as a fun activity to race the ocean so that you get your maximum enjoyment out of it. An underwater glider will be released in Passion Puddle to race the ocean so that you get your maximum enjoyment out of it.

Ocean Science Education Activities
Spencer Department of Marine and Coastal Sciences
Time: 10:00 a.m. to 12:00 p.m.
Attach your name to a tabulated book as a fun activity to race the ocean so that you get your maximum enjoyment out of it. An underwater glider will be released in Passion Puddle to race the ocean so that you get your maximum enjoyment out of it.
A larger study looks at the microeconomics of one community farm market in New Jersey. In the study, each farmer was assessed for a week of their market day. The average gross receipts for the week were $7,900, with a median of $4,999 and 24% reported that their gross incomes were between $5,000 to $10,000. The study found that 56% of the market managers reported that their market was not self-sustaining and 44% reported that they had to seek external funding to operate their market.

The study also found that 89% of the 38 surveyed farmers who were also selling on other marketing channels, reported that participating in Community Farmers' Markets was an advantage for their farm businesses. Some farmers reported that they had failed wholesale grading standards because of ripeness. Another farmer said that an added benefit to selling at Community Farmers' Markets is the potential to provide a farmer with a positive cash flow in a relatively short period of time.

**Table 1: Small Investments Produce Fast Returns**

<table>
<thead>
<tr>
<th>Investment</th>
<th>Estimated Cost of Goods Sold on a Single Market Day</th>
<th>Estimated Outlay to Reach, Display and Sell at a Community Market</th>
</tr>
</thead>
<tbody>
<tr>
<td>Internet</td>
<td>$0.00</td>
<td>$0.00</td>
</tr>
<tr>
<td>CSA's</td>
<td>$20.00</td>
<td>$40.00</td>
</tr>
<tr>
<td>farmers</td>
<td>$40.00</td>
<td>$80.00</td>
</tr>
<tr>
<td>no</td>
<td>$80.00</td>
<td>$160.00</td>
</tr>
<tr>
<td>yes</td>
<td>$0.00</td>
<td>$0.00</td>
</tr>
</tbody>
</table>

**Note:** The study found that participating in Community Farmers' Markets was an advantage for all of the farmers included in this study, even those who did not report making a profit margin at the market.

**Chart 7 & 8: Few Markets Cover Costs with Market Revenues and Fees**

The study found that there were few markets that were able to cover their costs with market revenues and fees. Only 20% of the markets surveyed reported that they were able to cover their costs with market revenues and fees.

**Chart 6: About New Jersey Community Farmers’ Markets**

The study found that 89% of the farmers surveyed reported that participating in Community Farmers' Markets was an advantage for their farm businesses. Some farmers reported that they had failed wholesale grading standards because of ripeness. Another farmer said that an added benefit to selling at Community Farmers' Markets is the potential to provide a farmer with a positive cash flow in a relatively short period of time.
Office of Communications
Layout of existing Rutgers Day logo with the incorporation of ‘Ag Field Day’.

Ag Field Day
at Rutgers Day
Saturday, April 25, 2009

Ag Field Day
at Rutgers Day
Saturday, April 25, 2009
Office of Communications
Photo art direction, studio shoot
Office of Communications
Photo art direction, on campus and in class
The Equine Science Center

Who We Are and What We Do For You

Who Are We?
The Equine Science Center at Rutgers, The State University of New Jersey, is the only organization in the country that assembles faculty, students and staff from multiple disciplines and departments — both within and outside the University — into collaboration teams to address problems of horses, horse owners and the horse industry in order to share effective solutions with the public.

Examples of Your Dollars In Action

• Encouraging responsible and knowledgeable horse ownership
• Producing future veterinarians
• Helping owners learn to keep their horses sound and properly fed
• Undertaking the award-winning New Jersey Equine Economic Impact Study
• Improving teaching and research facilities for young minds and young horses
• Supporting master’s degree and doctoral candidates
• Caring for our research horses
• Teaching environmentally sensitive farm management
• Sharing knowledge with the public through seminars, www.esc.rutgers.edu and publications
• Examining natural products for horse health

Examples of Your Dollars In Action

The Equine Science Center is dedicated to better horse care through research and education to advance the well-being and performance of horses and the equine industry.

WHAT DO WE DO FOR YOU?

• Identify the needs of horses, horse owners and the horse industry
• Find solutions to problems through science-based inquiry
• Share solutions with the public
• Influence public policy on behalf of horses, horse owners and the horse industry

AREAS OF EMPHASIS:

• Horse health and well-being
• Land use policy and management
• Environmental stewardship
• Integrity of equestrian sport
• Sustainability of the horse industry

Your gift to the Equine Science Center makes a tremendous impact.

YES!

I want to support the Equine Science Center.

I’m interested in (check all that apply):

q Long-term programs of the Center through its endowment
q Student advancement
q Teaching and outreach activities
q Research aimed at keeping horses healthy
q Facilities and services
q Caring for our research horses
q Teaching environmentally sensitive farm management
q Sharing knowledge with the public through seminars, www.esc.rutgers.edu and publications
q Examining natural products for horse health

Equine Podcast Icon Ideas

equine podcasts
What is …?
Fun
Healthy
Free
Convenient
Easy

Walk New Jersey
Point-to-Point

A way to increase your energy and feel better!

Here’s How – It’s simple …

STEP 1: Register online for free. Invite co-workers, family, or neighbors to join you.

STEP 2: Track your progress with our fun, interactive online tools that record how far you have walked.

Sign up now!
getmovinggethealthynj.rutgers.edu

GMGH - NJ is a wellness initiative developed by the Department of Family and Community Health Sciences and 4-H Youth Development, both part of Rutgers Cooperative Extension.

Helpful Hints:
• Wear good walking shoes.
• Stay hydrated.
• Use a pedometer to track your steps.

Biking, gardening, dancing, skiing and many activities can count on your walking log. Check out our website to see how you can convert your activities into steps.

Our website also has information on the many state parks, forests, trails, recreation areas and historic sites that are great for walking.

Put on your walking shoes and get started!

Rutgers
New Jersey Agricultural Experiment Station

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.

Rutgers
New Jersey Agricultural Experiment Station
Plant Biology Graduate Program

Our interdisciplinary faculty offers a comprehensive program of study and research and provides the opportunity to specialize in most fields of plant biology. Greenhouse and research facilities and equipment are extensive. Fieldwork may be performed in any of several experiment stations, farms, or research stations, as well as in a nearby primeval forest ecosystem, old field and ancient habitats. An M.S. and/or Ph.D. is offered in four tracks of study:


**Tracks of Study**

- **Plant Pathology** – Host/pathogen interactions, epidemiology and control of plant disease, plant virology, bacteriology, mycoplasmology, mycology, molecular biology of plant pathogenic or endophytic microorganisms, and biotechnology. **Dr. Peter Oudemans, Track Coordinator**

- **Molecular & Cellular Biology/Genomics** – Biocontrol of pests and pathogens, biofuels and bioenergy, biotechnology and crop improvement, biotic and abiotic stress/interactions with the environment, circadian control, genetic control of plant development, metabolomics/primary and secondary metabolism, natural products and human health, programmed cell death/senescence and fruit ripening, plant diversity/anatomy/evolution and biogeography, interactions with pathogenic and symbiotic microbes, plastid molecular genetics, structural/functional and computational genomics, transcriptional and post-transcriptional gene regulation. **Dr. Michael Lawton, Track Coordinator**

- **Horticulture & Plant Technology** – Agricultural biotechnology, plant breeding and genetics, plant physiology, weed science, plant systematics, plant-microbe interactions, turfgrass science, crop science in agronomic crops and biofuels, horticultural science in fruits, vegetables, flowers and tree crops. **Dr. Stacy Bonos, Track Coordinator**

- **Organismal & Population Biology** – Evolutionary history, biogeography, and phylogenetics, population structure and variation, physiological ecology and niche evaluations, species interactions and ecosystem dynamics, pollination, dispersal, and reproductive biology, morphological and anatomical evolution, taxonomy and classification, and studies of threatened and invasive species. **Dr. Lena Struwe, Track Coordinator**

The School of Environmental and Biological Sciences is a degree-granting unit of Rutgers University located on the George H. Cook Campus in New Brunswick, New Jersey. In line with Rutgers’ strong land-grant tradition, faculty members from the school pursue mission-based teaching, research, and outreach that address real-world problems, and encourage students to adopt the same mission-based approach to their educational experience at Rutgers.

For More Information visit us at: aesop.rutgers.edu/~plantbio
or email us at: plantbio@aesop.rutgers.edu

**Graduate Program in Plant Biology**

Foran Hall, 59 Dudley Road
New Brunswick, NJ 08901
Tel: 732.932.9375 X358
Office of Special Programs/Educational Opportunity Fund Program Overview

The Office of Special Programs (OSP) believes that students possess the capacity to make positive, adaptive changes in their educational development. The role of OSP is to serve as a supportive and professional resource that assists students in navigating the complexities of life at Rutgers University School of Environmental and Biological Sciences.

Program services and activities are based on the facilitation of students understanding of what is required to succeed in college, and assisting them in assessing their personal skills, abilities, strengths, and capacities. The role of the OSP staff is to guide, inform and instruct, while encouraging student academic, personal and professional success.

Our Mission:

The Rutgers School of Environmental and Biological Sciences’ Office of Special Programs (OSP) is an office of educators who work to facilitate the academic, personal and career growth of students by offering services designed to promote lifelong learning with service to local and global communities. We exist to ensure access to quality higher education, especially for students who have encountered economical and educational challenges.

OSP is funded through the Commission of Higher Education and the School of Environmental and Biological Sciences Dean's Office. Using a holistic approach to academic support and a progressive network of programs and services, OSP’s philosophy on education is adopted from a Chinese proverb from Sun Tzu:

If you are planning for a year, plant rice.
If you are planning for a decade, plant a tree.
If you are planning for a lifetime, educate a person.

For more information, visit us at sebs.rutgers.edu/osp.
Scholarship Appreciation Dinner

Monday, October 20, 2008

...for a Better Tomorrow

Douglass Campus Center
Rutgers, The State University of New Jersey

Jersey Roots, Global Reach

Rutgers, The State University of New Jersey

Annual Awards Dinner

School of Environmental and Biological Sciences
New Jersey Agricultural Experiment Station

A Celebration of Excellence!

04.23.09 Thursday 5:30 p.m.
Cook Campus Center
For more information see Rutgers New Jersey Agricultural Experiment Station (NJAES) Cooperative Extension Factsheets:

**Starting Vegetable Seeds Indoors:** [njaes.rutgers.edu/pubs/publication.asp?pid=FS787](njaes.rutgers.edu/pubs/publication.asp?pid=FS787)

**Growing Tomatoes in the Home Garden:** [njaes.rutgers.edu/pubs/publication.asp?pid=FS678](njaes.rutgers.edu/pubs/publication.asp?pid=FS678)

**Blossom End Rot: Tomatoes, Eggplants & Peppers:** [njaes.rutgers.edu/pubs/publication.asp?pid=FS011](njaes.rutgers.edu/pubs/publication.asp?pid=FS011)

For gardening publications, weed gallery, gardening FAQs, visit us on the web at: [njaes.rutgers.edu/garden](njaes.rutgers.edu/garden)

What’s buggin’ your plants? Find out from the Plant Diagnostic Lab [njaes.rutgers.edu/services](njaes.rutgers.edu/services)

Planting a garden? Is your lawn looking forlorn? Don’t guess what your soil needs - have it tested by the Soil Testing Lab! [njaes.rutgers.edu/services](njaes.rutgers.edu/services)

The Cooperative Extension System is a nationwide, non-credit educational network. Each U.S. state and territory has a state office at its land-grant university and a network of local or regional offices. These offices are staffed by experts who provide information to local residents. To find Cooperative Extension offices in your state, go to: [csrees.usda.gov/Extension](csrees.usda.gov/Extension)

The most reliable information you’ll find on the Internet brought to you by the nation’s largest and oldest network of universities is available at eXtension: [extension.org](extension.org)

**Ramapo Tomato**

F1 Hybrid

Start seedlings indoors about 6 to 8 weeks before you expect to plant outside. Use a sterile growth media, ensure adequate lighting and humidity. Seeds germinate best at 75 - 80°F. After first true leaves form, maintain temperatures in the range of 70°F during the day and 60°F at night. If plants become elongated and spindly, increase the amount and intensity of light they receive. Transplant tomatoes outside when all danger of frost is past.

Semi-determinate plants; 75 - 85 days to maturity; medium sized 12 - 16 oz. fruit.
The Economic Impact of Farmland in New Jersey
A 2007 Assessment

Brian J. Schilling, Kevin P. Sullivan, and Lucas J. Marxen
September 00, 2008
NEW JERSEY OPERATION MILITARY KIDS
has created or expanded programs that include:
- NJAES - Teen Speakers’ Bureau
- RSG! - Care Package for Military Children
- NRE- Trainings - Community Awareness Briefings
- Mobile Technology Lab - Connecting with Technology
- NJAES - Young Heroes

NEW JERSEY has created or expanded programs that include:
- NJAES - Teen Speakers’ Bureau
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- Mobile Technology Lab - Connecting with Technology
- NJAES - Young Heroes

The statewide support network for military kids is a collaboration between many state and national youth, adult, school, civic, military and private organizations.

This 2008 Annual Report provides highlights from over 35 support organizations and community leaders. The video tool kit is used in a variety of venues for different audiences. In addition, the New Jersey OMK team provided a variety of support services to military families and their children. The video tool kit is available from New Jersey OMK. The video is distributed to educators and organizations throughout the state.

HUSK - Teen Speakers’ Bureau
HSUS - Teen Speakers’ Bureau
RSG! - Trainings - Community Awareness Briefings
Rutgers - Young Heroes

OPERATION MILITARY KIDS - STATE & NATIONAL PARTNERS

The statewide support network for military kids is a collaboration between many state and national youth, adult, school, civic, military and private organizations.

OPERATION MILITARY KIDS - NEW JERSEY 2008 ANNUAL REPORT

OPERATION MILITARY KIDS - NJ Events in Review
- Operation: Military Kids - NJ - Co-located with Extension/operating
- Operation: Military Kids - NJ

OPERATION MILITARY KIDS - NJ Events in Review
- Operation: Military Kids - NJ - Co-located with Extension/operating
- Operation: Military Kids - NJ

What happens to youth when a family member who serves in the armed forces is deployed?

The wars in Iraq and Afghanistan continue on an estimated 5,000 New Jersey service members being deployed every year. Deployment means to youth. NJ OMK team members train teen and adult presenters to share the video with school groups, guidance counselors, military families, government agencies and community organizations.

The video tool kit is used in a variety of venues for different audiences. In addition, the New Jersey OMK team provided a variety of support services to military families and their children. The video tool kit is available from New Jersey OMK. The video is distributed to educators and organizations throughout the state.

We want to remind our readers that we are a small team and may not always be able to provide the support that regular active duty military members are living on base have it.

In the United States, Great Britain, and the mobile phone application for individuals living on base has this tool.

Through a week of activities, the programs, military youth discover a variety of tools and devices that are part of their family member’s deployment.

The 2009 Annual Report highlights over 35 programs, briefings and networking activities coordinated by the New Jersey OMK team. These programs involved over 2,000 youth, military volunteers, number of support organizations and community leaders.

The statewide support network for military kids is a collaboration between many state and national youth, adult, school, civic, military and private organizations.

Operation: Military Kids (OMK) provides support to military children and families. OMK is the largest national volunteer-driven program that focuses on military children and families. The video tool kit is available from New Jersey OMK. The video is distributed to educators and organizations throughout the state.

New Jersey OMK builds partnerships to increase capacity for youth and families to support youth and military families.

OPERATION MILITARY KIDS - NJ Events in Review
- Operation: Military Kids - NJ - Co-located with Extension/operating
- Operation: Military Kids - NJ
Ethnic Disparity in Screening African American Women for Osteoporosis

Kathleen T. Morgan Dr. M.H., DTR
Chair, Family and Community Health Sciences
Rutgers Cooperative Extension

Abstract
National data indicate that minority Americans have poorer health outcomes from preventable and treatable conditions such as cardiovascular disease, diabetes, asthma, cancer, and osteoporosis. Multiple factors contribute to these racial and ethnic disparities. Lack of access to healthcare takes a significant toll.
Research has shown that minorities receive a lower quality of care, even when controlling for social determinants and insurance status. Minorities are less likely to receive routine medical procedures than are white Americans.

Despite a lower prevalence of osteoporosis in African American women, they remain at risk. Lack of recognition of risk factors may occur in African American women, raising the possibility that disparities in screening practices may exist. This study investigated whether African American women are screened as frequently for osteoporosis as Caucasian women are.

In the Women’s Osteoporosis Research Study (WORS), there was a significant difference in the number of white women as compared to black women who were referred by their physicians for a bone density test. A statistical significance was also identified in the number of white women who were taking prescription medication as compared to black women. A statistical significance was identified in the number of white respondents as compared to black respondents who said their physicians asked them screening questions related to osteoporosis prevention/treatment.

When physicians utilize screening practices for osteoporosis on older African American women, risk will be identified, fracture risk will be reduced and morbidity and mortality related to osteoporosis in older African American women will be reduced.

The results of the WORS study clearly validated what previous research has demonstrated. Physician awareness in osteoporosis screening practices for African American women needs to improve. African American women need educational resources to advocate for their health.

Objectives
1. Do African American women get screened for osteoporosis as frequently as Caucasian women do?
2. Do African American women perceive themselves to be at risk for osteoporosis?
3. Do African American women delay or ignore health issues because of access to care issues?
4. Does socio-economic status play a role in African American women receiving the healthcare necessary to prevent osteoporosis?
5. Does patient-physician race concordance play a role in the quality of healthcare received?

Findings
Finding 1: African American women did NOT get screened as frequently as white women in the study. In five areas essential to effective screening practices and treatment, white women had significant differences from the black women in the study.
Finding 2: African American women did NOT ignore health issues due to lack of healthcare access.
Finding 3: African American women did NOT perceive themselves to be at risk for osteoporosis.
Finding 4: White wealth was significant over black wealth.
Finding 5: Patient/physician race concordance does play a role in the quality of healthcare received.

Table 4.13 Distribution of Respondents - Age

<table>
<thead>
<tr>
<th>Age Group</th>
<th>White Women</th>
<th>Black Women</th>
</tr>
</thead>
<tbody>
<tr>
<td>Under 45</td>
<td>36 (22.97%)</td>
<td>20 (12.44%)</td>
</tr>
<tr>
<td>46-65</td>
<td>146 (90.68%)</td>
<td>76 (46.89%)</td>
</tr>
<tr>
<td>66-75</td>
<td>44 (27.31%)</td>
<td>13 (8.11%)</td>
</tr>
<tr>
<td>76-85</td>
<td>11 (6.89%)</td>
<td>5 (3.18%)</td>
</tr>
</tbody>
</table>

Table 4.14 Osteoporosis Knowledge

<table>
<thead>
<tr>
<th>Knowledge</th>
<th>White Women</th>
<th>Black Women</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not concerned about bone health</td>
<td>55 (33.97%)</td>
<td>28 (17.24%)</td>
</tr>
<tr>
<td>Doesn’t know anything about osteoporosis</td>
<td>19 (11.86%)</td>
<td>22 (13.67%)</td>
</tr>
</tbody>
</table>

Table 4.15 Physicians Who Recommended a Bone Density Test

<table>
<thead>
<tr>
<th>Risk Factor</th>
<th>White Women</th>
<th>Black Women</th>
</tr>
</thead>
<tbody>
<tr>
<td>Has had a physician in the last 2 years</td>
<td>162 (98.75%)</td>
<td>99 (61.62%)</td>
</tr>
<tr>
<td>Has been asked about osteoporosis by a health professional</td>
<td>146 (92.66%)</td>
<td>40 (25.39%)</td>
</tr>
<tr>
<td>Has health insurance</td>
<td>9 (5.71%)</td>
<td>9 (5.71%)</td>
</tr>
<tr>
<td>Patient receives appointment with physician</td>
<td>123 (77.14%)</td>
<td>38 (24.09%)</td>
</tr>
<tr>
<td>Patient has a family physician</td>
<td>133 (82.32%)</td>
<td>74 (46.73%)</td>
</tr>
</tbody>
</table>

Table 4.16 Asked Their Physicians Questions Related to Osteoporosis Prevention/Treatment

<table>
<thead>
<tr>
<th>Risk Factor</th>
<th>White Women</th>
<th>Black Women</th>
</tr>
</thead>
<tbody>
<tr>
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<tr>
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<td>133 (82.32%)</td>
<td>74 (46.73%)</td>
</tr>
</tbody>
</table>
Present this Certificate in recognition of your accomplishments.

Awarded to Name Here
Sussex County
4-H Youth Development Program

______________________________
Dean of Outreach and Extension Programs

______________________________
Department Chair

Date

NJAES
Certificate Template

NJAES
Master Gardeners Recreation of Icon

NJAES
Cd-Rom artwork
Office of Communications
preliminary graphics for dashboard web graphics
Horses 2009 - Keynote Speakers

**Scott Palmer VMD**

**"Responsible Horse Ownership: When the Dream Becomes a Reality"**

Dr. Palmer is recognized nationally as an advocate for thoughtful, responsible horse care and ownership. He presided over the first Unwanted Horse Summit in Washington, DC, a few years ago and continues his involvement through talks, presentations, and committee efforts. He is Hospital Director and a staff surgeon at the New Jersey Equine Clinic in Clifton. And he is past-president of the New Jersey Association of Equine Practitioners and the American Association of Equine Practitioners (AAEP).

Dr. Palmer also plays a vital role in the “On Call” program of AAEP, providing veterinary expertise for live media coverage of major equine sporting events.

**Eric Scott**

**"The State of the State We're In"**

A veteran broadcast journalist, Eric Scott currently manages New Jersey's largest news radio station, Millenium Radio New Jersey and 101.5 FM. Acclaimed as a reporter who tells it like it is, Eric has worked as a local and national correspondent for CBS, NBC, and Mutual News. He is known as a tenacious interviewer and tireless investigator. His broadcasts reach millions of area residents, and have consistently been recognized as among the best in the industry.

**Karyn Malinowski, PhD, Director**

**Equine Science Center, Rutgers**

Welcoming delegates to Horses 2009 will be Dr. Karyn Malinowski, director of the Equine Science Center. She also serves as an associate director at the New Jersey Agricultural Experiment Station. Her equine research and extension programs concentrate on improving the well-being and quality of life of the equine athlete while ensuring the vitality and viability of the equine industry, both statewide and nationally.

For other speakers and topics, please refer to the schedule pages.

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**SATURDAY, MARCH 28, 2009**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:30 AM</td>
<td>Registration, Coffee and Sponsor Visits</td>
</tr>
<tr>
<td>8:30 AM</td>
<td>Welcome and Introduction of Partners</td>
</tr>
<tr>
<td>8:45 AM</td>
<td><strong>Keynote Speaker - Scott Palmer, New Jersey Equine Clinic</strong></td>
</tr>
<tr>
<td></td>
<td>- Responsible Horse Ownership: When the Dream Becomes a Reality</td>
</tr>
<tr>
<td>9:30 AM</td>
<td>Break and Sponsor visits; Q&amp;A with speaker</td>
</tr>
<tr>
<td>9:45 AM</td>
<td>Panel: When to Call Your Veterinarian</td>
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<td></td>
<td>- Michael Furfaro, Centenary College</td>
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<td></td>
<td>- David Marshall, University of Delaware</td>
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<td></td>
<td>- First Aid, Vital Signs, Minor Injuries</td>
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<td></td>
<td>- Pre-purchase Examinations and Spotted Lameness</td>
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<tr>
<td>11:00 AM</td>
<td>Break and Sponsor visits; Q&amp;A with speaker</td>
</tr>
<tr>
<td>11:15 AM</td>
<td>Panel: Why Does My Horse Do That!?</td>
</tr>
<tr>
<td></td>
<td>- Jeaninne Berson, University of California, Davis</td>
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<tr>
<td></td>
<td>- What We Know from Behavior Science</td>
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<tr>
<td></td>
<td>- Horse Owners' Club, UMD, Client Service/Instructor/Master Level</td>
</tr>
<tr>
<td></td>
<td>- How am I Affecting my Horse's Behavior?</td>
</tr>
<tr>
<td>12:30 PM</td>
<td>Lunch and Sponsor Visits; Q&amp;A with speakers</td>
</tr>
<tr>
<td>1:45 PM</td>
<td>Panel: Good Horse-Keeper Essentials</td>
</tr>
<tr>
<td></td>
<td>- Carey Williams, Rutgers University</td>
</tr>
<tr>
<td></td>
<td>- Basics of Nutrition</td>
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<tr>
<td></td>
<td>- Sarah Rakston, Rutgers University</td>
</tr>
<tr>
<td></td>
<td>- Feeding for Special Needs</td>
</tr>
<tr>
<td></td>
<td>- Laura Florence, Holistic Horsecare</td>
</tr>
<tr>
<td></td>
<td>- Hoof and Foot Care</td>
</tr>
<tr>
<td>3:00 PM</td>
<td>Special Prize Drawings</td>
</tr>
<tr>
<td>3:15 PM</td>
<td>Sponsor visits, networking and Q&amp;A with speakers</td>
</tr>
<tr>
<td>4:00 PM</td>
<td>Close of Saturday program</td>
</tr>
</tbody>
</table>

**SUNDAY, MARCH 29, 2009**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00 AM</td>
<td>Registration, Coffee and Sponsor Visits</td>
</tr>
<tr>
<td>9:30 AM</td>
<td>Welcome and Introduction of Partners</td>
</tr>
<tr>
<td>9:40 AM</td>
<td><strong>Keynote Speaker - Eric Scott, News Director, New Jersey 101.5</strong></td>
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<tr>
<td></td>
<td>- The State of the State We're In</td>
</tr>
<tr>
<td>10:15 AM</td>
<td>Break and Sponsor visits; Q&amp;A with speaker</td>
</tr>
<tr>
<td>10:30 AM</td>
<td>Panel: Farm and Ranch Options</td>
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<tr>
<td></td>
<td>- Nick Atwood, UMD</td>
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<tr>
<td></td>
<td>- Arenas, Footings</td>
</tr>
<tr>
<td></td>
<td>- Chris Witters, Hofstra University</td>
</tr>
<tr>
<td></td>
<td>- Contracts, Liabilities</td>
</tr>
<tr>
<td></td>
<td>- Robert Brach, NFA</td>
</tr>
<tr>
<td></td>
<td>- Basics of Farm</td>
</tr>
<tr>
<td>11:45 AM</td>
<td>Lunch and Sponsor Visits; Q&amp;A with speaker</td>
</tr>
<tr>
<td>1:15 PM</td>
<td>Panel: Working</td>
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<tr>
<td></td>
<td>- Brendan Furl</td>
</tr>
<tr>
<td></td>
<td>- Lameness</td>
</tr>
<tr>
<td></td>
<td>- Celeste Kung, UMD</td>
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<td>- Allinete and C</td>
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<tr>
<td></td>
<td>- Kenneth McKee, Performance Academy</td>
</tr>
<tr>
<td>2:30 PM</td>
<td>Break and Sponsor Visits; Q&amp;A with speaker</td>
</tr>
<tr>
<td>2:45 PM</td>
<td>Panel: Protection</td>
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<tr>
<td></td>
<td>- David Horrocks, UMD</td>
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<tr>
<td></td>
<td>- Vaccines and Injuries</td>
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<td></td>
<td>- Tom Corcoran, UMD</td>
</tr>
<tr>
<td></td>
<td>- Veterinary Services</td>
</tr>
<tr>
<td></td>
<td>- What Diseases</td>
</tr>
<tr>
<td>3:45 PM</td>
<td>Special Prize Drawings</td>
</tr>
<tr>
<td>4:00 PM</td>
<td>Final Sponsor Visits; Q&amp;A with speaker</td>
</tr>
<tr>
<td>5:00 PM</td>
<td>Close of Horses</td>
</tr>
</tbody>
</table>

* CE credits for veterinarians and veterinary technicians. Find directions and further details at www.esc.rutgers.edu/horses2009.
NJAES EcoComplex Poster, Design and Layout.

EcoComplex

Environmental and Energy Innovation

Clean Energy

Water

Solid Waste Management

Controlled Environment

Agriculture

JOBS CREATION • ECONOMIC DEVELOPMENT • SUSTAINABILITY

New Jersey Agricultural Experiment Station
Continuing Education and Outreach
Display Banner Panels
Teaching 14-18 Year Olds How to Handle the Financial Aspects Necessary to Operate a Youth Farmstand
A Series of Four Experiential Learning Activities

Linda Strieter, County 4-H Agent
Cooperative Extension of Gloucester County
strieter@aesop.rutgers.edu
County Government Services Building
1200 N. Delsea Drive
Clayton, NJ 08312-1095

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

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.
scholarship endowments help build a solid foundation in the basic sciences

RUTGERS
School of Environmental and Biological Sciences

Rutgers—The State University of New Jersey

FINDING A CURE

The Center has an Advisory Board of representatives from public and private sectors, including well-known scientists, philanthropic organizations, and government agencies. The Center’s mission is to foster innovation and collaboration among scientists and educators from different disciplines to develop new methods for understanding and treating cancer and other diseases, such as heart disease, diabetes, and Alzheimer’s. The Center aims to advance scientific research and education in these areas, while also promoting public awareness and engagement.

TABLE OF CONTENTS

1. INSIDE THIS ISSUE: Efforts to Increase Environmetnal Awareness...04
2. DEEPER LOOK AT...Biology of Marine Life...04
3. THE RUTGERS EARTH AND ITS OCEANS REPORT...04
4. ENVIRONMENTAL QUALITY: From Predictions to Solutions...04
5. CLIMATE CHANGE: Issues in the USA Marketplace...04

SEBS Development Brochure Mock Ups

(work in progress)

Dr. Steven Handel

Rutgers University, New Brunswick, NJ

Out of Africa: Medicine, Horticulture and Economics

Rutgers has a proud history of addressing the needs of the people of Africa through research, education, and community involvement. The university has a strong presence in Africa, with several partnerships and projects aimed at improving health and well-being, promoting economic development, and advancing scientific knowledge.

1. The Rutgers New Use Agriculture and Natural Product Program (NUANPP) has a core mission to develop and commercialize new African spices and natural products. The program is supported by the New Jersey Agricultural Experiment Station (NJAES) and the New Jersey Department of Agriculture (NJDA).

2. The Rutgers Center for Environmental Science and Policy (CESP) has been working with visiting scientists to study the plant known as Aframomum melegueta, also known as Grains of Paradise or Aframomum melegueta. This plant is native to tropical West Africa and has a number of potential uses, including as a spice and flavoring agent.

3. The Rutgers Center for Urban Restoration has been working with local communities to restore degraded urban environments. The center is led by Dr. Steven Handel, who has been working on this issue for over 25 years.

4. The Rutgers Center for Environmental Science and Policy has been working with local communities to restore degraded urban environments. The center is led by Dr. Steven Handel, who has been working on this issue for over 25 years.

5. The Rutgers Center for Environmental Science and Policy has been working with local communities to restore degraded urban environments. The center is led by Dr. Steven Handel, who has been working on this issue for over 25 years.
Bring Back Life to Natural Resource Stewardship

They have seen the discoveries and scientific advances that inspired people to invest in our future. For Dr. H. Boyd Woodruff, that inspiration came from Grains of Paradise, a spice and flavoring from his Rutgers education. Woodruff majored in microbiology and was enrolled in a required course on the slow growth of the organisms they were working with. He was in awe of it, and his high-school teacher encouraged him to continue his education. In the depression era, Woodruff’s career. At the time the antibiotic program was launched, Woodruff was a fellow majors in microbiology at a time when biology and conservation and testing, the next medical breakthrough was on the horizon. Woodruff continued to help him through graduate student support. The fellowship he received was substantial over the years, allowing graduate students to continue their research for a period of time.

The Center for Urban Restoration Ecology (C.U.R.E.), a collaboration between Rutgers University and the Brooklyn Botanic Garden, co-directs Dr. Steven Handel. The Center is dedicated to discovering ways to facilitate the advancement of science, perpetuate Boyd’s life-changing experience and伍德鲁夫的成就，并希望年轻人能够继续他的成就。这种愿景的表达，以及伍德鲁夫的成就，都是十分强大的。

We truly would not be where we are today without the investments that you, our friends, and the policy initiatives needed to address our environmental concerns. There are many ways you can get involved, such as restructuring the tax code, identifying people in your community, and writing letters to your elected representatives to educate them on your environmental concerns.

GLOBAL BIODIVERSITY AND BIOEXPLORATION

Africa is one of the world’s last environmental frontiers, a continent where biodiversity is at risk due to the rapid pace of development and environmental degradation. The continent’s vast and diverse landscapes offer incredible opportunities for discovery and innovation. The Global Biodiversity and Bioexploration program at Rutgers University is a leader in this field, working to advance ecological restoration in the region.

One of our core missions is to expand the awareness and use of environmentally sustainable practices that are essential for protecting our planet. Our researchers are working everyday on discovering new ways to improve the quality of life for all people, regardless of where they live or what region of New Jersey they come from.

RUTGERS University

Out of Africa: Medicine, Horticulture and Economics

What secrets do our rainforests and wild plants hold for us? How can we use this knowledge to help improve outcomes for people around the world? These are just a few of the many questions that we explore at Rutgers University.

The Rutgers University of New Jersey Global Biodiversity and Bioexploration program is dedicated to exploring the continent’s vast and diverse landscapes and to discovering ways to promote sustainable development and conservation.

GLOBAL BIODIVERSITY AND BIOEXPLORATION

We are honored to have the opportunity to partner with our friends from Africa to share our knowledge and expertise. Our researchers are working everyday on discovering new ways to improve the quality of life for all people, regardless of where they live or what region of New Jersey they come from.

GLOBAL BIODIVERSITY AND BIOEXPLORATION

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# Print Proof Approval Form

**RUTGERS**

**Print Proof Approval Form**

<table>
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<th>Department: __________________________</th>
<th>Date of Entry: __________________________</th>
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<tbody>
<tr>
<td>Job Description: ____________________</td>
<td>Job Number: ____________________________</td>
</tr>
<tr>
<td>Point Person: ________________________</td>
<td>Due Date: ______________________________</td>
</tr>
</tbody>
</table>

**This is your proof for printing. Your signature is required for this project to continue.**

Please read this proof thoroughly and pay attention to details, including grammar and spelling. The job will be printed according to this proof unless we are otherwise instructed of additional changes. This is your opportunity to make final comments and changes before going to press. Printing will not commence until you approve this proof and sign below. Please call or set up an appointment with the designer if you would like to discuss further changes.

Please fill out the form below, initial, date, and fax back to 732-932-9838. *This proof must be signed by the department chair or center director.*

<table>
<thead>
<tr>
<th><strong>Proof #1</strong></th>
<th><strong>Proof #2</strong></th>
<th><strong>Proof #3</strong></th>
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Notes: ____________________________________________________________

Notes: ____________________________________________________________

Notes: ____________________________________________________________

Author’s alterations must be reviewed with Mike Green before moving forward.

Completed, ready for pre-press/production

I understand that any changes after this stage will incur additional charges by the printer, above and beyond the quoted price.

Print Name: __________________________ Signature: __________________________ Date: __________

**Please return this form via fax** to the Office of Communications within 1–2 business days to continue this job. Any delay in the return of this form will result in a later delivery/completion date.

**Office of Communications**
School of Environmental and Biological Sciences
New Jersey Agricultural Experiment Station

57 US Highway 1
New Brunswick, NJ 08901-8554
p. 732-932-7000, f. 732-932-9838
Spotlights that I helped with design, or played with Typography for more impact on the following:

Add color bar to top, suggested to have flower break the boarder. She used my typography.

Tweeked type and color.

Suggested color block and the use of Erasure (script) font.

Helped crop image and type placement.
Office of Communications
Spotlights that I helped design, or played with Typography for more impact

Build on graphics based on Bonnies Design for the ‘global’ concept.
I attempted the following ideas.
She used my typography & banner from my artwork.

Daniel Hoffman
STUDIES DEVELOPING COUNTRIES to UNDERSTAND WHAT INFLUENCES
DIET & HEALTH

thumbnail 01

thumbnail 02

Complete concept and layout design

turning GREEN energy INTO Greenbacks
Rutgers Ecocomplex
Office of Communications

Spotlights that I helped design, or played with Typography for more impact

Worked with Bonnie on the type and color block.

What’s Bugging You?
The Department of Entomology knows!

Worked with Bonnie on the type placement and size.

Digging Into the Past
Gates Cambridge Scholar Suzanne Pilaar prepares for a new adventure that will take her from Cambridge’s storied halls to a 4,000-year-old dig site in Turkey.

Worked with Bonnie on the type placement and size.

Across the Pond
Slocum Glider RU17, the Scarlet Knight, begins a journey from the New Jersey coast in an attempt to replicate Lindbergh’s transatlantic flight.

Worked with Bonnie on the type placement and size.

Experience Matters
Our Research Farm Interns are Learning Skills for a Lifetime.
Office of Communications
Spotlights that I helped design, or played with Typography for more impact

Worked with Bonnie on the type placement and size.

Worked with Bonnie on the type placement and size.

Worked with Bonnie on the type placement and size. Cropping of image.
Office of Communications
Spotlights that I helped design, or played with Typography for more impact

Worked with Bonnie on the typography for more impact.

Web header request for website.
(Not used.)
**Rutgers**

**Putting Research to Work**

Two of the largest problems facing the developing world today are also two of the most readily solvable. Faculty at Rutgers, The State University of New Jersey, not only have the research expertise to make a significant difference in the area of food and malaria control and treatment, but also the power of their collaborations with partners both in the United States and abroad.

For years, Rutgers has partnered with New Jersey schools to bring food and nutrition education to youth, teachers, and parents. As one of the country’s leading public universities, Rutgers is committed to improving the nation’s health through cutting-edge research and community engagement.

The Division of Continuous Education and Outreach

The Department of Animal Sciences

New Jersey Agricultural Experiment Station

**NJAES**

**5 out of 15, One-Pagers, layout.**

---

**SEBS**

**4 of 5 Newsletters, building of new or clean up of existing pieces.**

---

**Family and Community Health Sciences**

**School Wellness Annual Report 2008**

Greetings from the Chair

I would like to welcome you to the premier issue of the Rutgers Cooperative Extension Family and Community Health Sciences School Wellness Annual Report. The purpose of this report is to highlight the outreach wellness activities in which our faculty and staff have been engaged.

Members of the Department of Family and Community Health Sciences (FCHS) help people stay healthy, enjoy life, become active, and reduce health care costs. Many of today’s health problems—obesity, heart disease, diabetes, and cancer—can be reduced through good nutrition and a healthy lifestyle. Rutgers combines research and practical advice to improve consumers’ health for a better tomorrow. FCHS faculty and staff offer a variety of programs to adults and youth. School wellness, in particular, is a key programmatic focus for our faculty and staff.

School wellness is the belief that schools can and must promote and encourage healthy eating, physical activity, and nutrition and physical education as part of the solution to the childhood obesity epidemic. The issue of school wellness impacts and engages a variety of stakeholders who have a role in leading, advocating for, and implementing wellness initiatives.

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

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

---

**Animal Science Update**

**The Department of Animal Sciences**

Chair’s Message: Our Department Is Growing

By Carol Baggs (picture fifth from the right), Ph.D., Department Chair

Rutgers, the State University of New Jersey

83 Somerset Street, New Brunswick, NJ 08901-1281

Phone: 732.932.5000

sebs.rutgers.edu

---

**NJAES/SEBS**

**15 out of 71 Department Cards**

I color corrected and re-cropped images on all cards.

---

**SEBS NEWS**

**5 Newsletters, building of new or clean up of existing pieces.**

---

**NJAES**

**2 out of 7 County Annual Reports**

---

**The Division of Continuous Education and Outreach**

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Marvin Schlaffer
Children’s Academy for University Learning
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Email: slaffm@doc.rutgers.edu

---

**Rutgers School of Environmental and Biological Sciences**

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Phone: 732-932-4720
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Phone: 732-932-2173
Email: slaffm@doc.rutgers.edu

---

**Key Contacts**

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**Dr. Richard J. Novak, Associate Vice President, Strategic Learning, eCollege support and course evaluation services**

Phone: 732-932-5513
Email: rmck@doc.rutgers.edu

**Barbara Fiorello, Assistant Vice President, OF Campus: learning centers and OF Campus Support Services**

Phone: 732-932-8108
Email: fiorela@doc.rutgers.edu

**Richard Anderson, Academic Technology, including Illuminate and Turnitin**

Phone: 732-932-4700, ext 6230
Email: rtauren@doc.rutgers.edu

For more online information contact 732.932.5000.

---

**Rutgers School of Environmental and Biological Sciences**

**NJAES**

**5 out of 15, One-Pagers, layout.**

---

**The Grand Opening of the Endocrine Research Facility and the 8th Annual Endocrine Research Symposium.**

Much has happened since the last newsletter was published. Bartlett Hall upgrades are nearing completion with a new roof (above) and renovation of the basement, as well as new offices for faculty. The Grand Opening of the Endocrine Research Facility (picture above left) was held in September at our newly renovated lab space. By current researchers and a distinguished speakers’ panel, followed by the First Annual Endocrine Research Showcase.

The Department of Animal Sciences Chair, Professor John Katz, graduated in June as Coast 2008 valedictorian. In fact, many of our Animal Sciences majors completed their degrees with high honors and new animal top-ranked veterinary schools and graduate programs. Current, with 324 reports that students describe Animal Science as their major, the largest undergraduate program at the School of Environmental and Biological Sciences (SEBS). Despite our heavy course load, we continue to mentor undergraduates and graduate students in our labs as we do cutting edge research across the fields of endocrinology, equine science, and animal health and the environment.

Several of our faculty members have advanced to administrative positions. Larry Katz is now Director of Rutgers Cooperative Extension and Associate Director of the New Jersey Agricultural Experiment Station (NJAES), and I am following him in that capacity. Barry Jesse is serving as the Associate Dean for Academic Administration and Undergraduate Education, and Henry John-Alder has been named the Department Chair. Barry Jesse serves as SEBS Associate Dean of Academic Administration, and Henry John-Alder is the Department Chair.

Several of our faculty members have been honored for their contributions to science and society. The Endocrine Society has honored Dr. Barry Jesse (above right) in an invitation to speak at the Society’s Annual Scientific Meeting. Larry Katz, joined in an invitation to teach courses such as Careers in Animal Science and Companion Animal Science. Larry is shown above right (please circled) as one of our partners against cancer. In addition, he recently noticed outliving NOMA (normal male) males to gain extra copies for donation to food banks in partnership with Farming Against Hunger.

I am pleased to announce that we are actively recruiting three new faculty with expertise in endocrinology to help “grow” the Department.

Brian Lipman is a former Ph.D. student of Larry Katz, joined us as an instructor to teach courses such as Careers in Animal Science and Companion Animal Science. Larry is shown above right (please circled) as one of our partners against cancer. In addition, he recently noticed outliving NOMA (normal male) males to gain extra copies for donation to food banks in partnership with Farming Against Hunger.

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