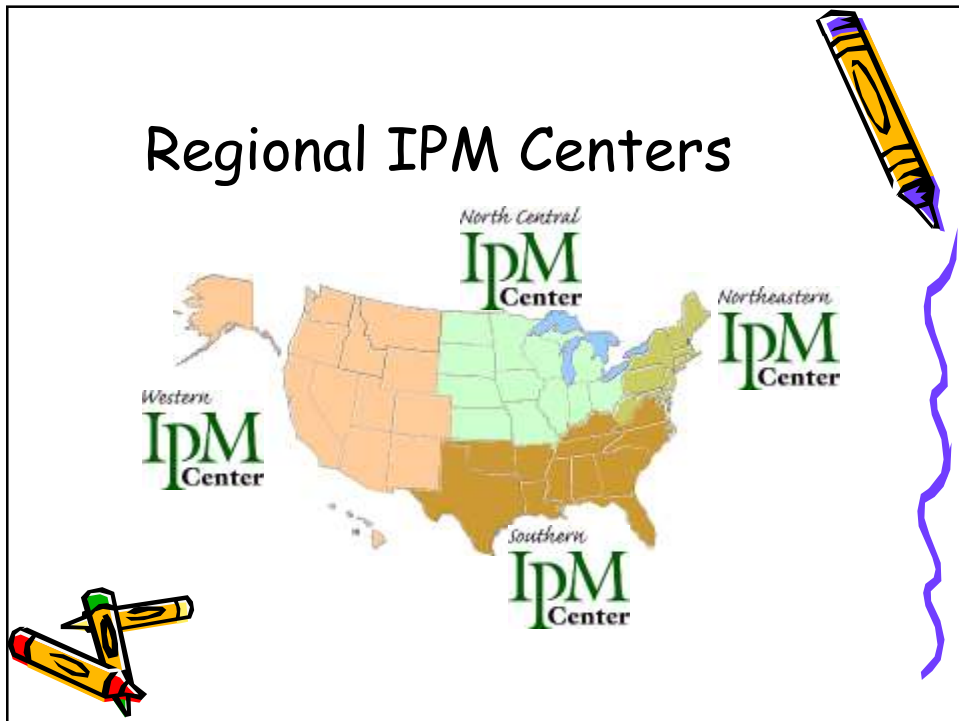


**Regional Working
Groups**

Fudd Graham
Auburn University



Regional IPM Centers

Western
IPM
Center

North Central
IPM
Center

Southern
IPM
Center

Northeastern
IPM
Center

History

- Western Region IPM Center group formed Summer 2006
 - Several conference calls - first Nov 06
 - Met in Portland Sep 24-25, 2007
- SRIPM working group proposed by Jim VanKirk in April, 2007
 - Met in Atlanta May 24-25



History

- NCIPM group
 - First conference call - May 2008
- NERIPM group recently funded
 - Now recruiting members



Northeastern Region School IPM Working Group

- Plan to have a meeting in October
- New England Information Network (ProNewEngland) hosting meeting on May 19 to identify sIPM needs and opportunities
- This will give the NEIPM work group a jumpstart
- UMASS just completed a sIPM survey of New England schools that will be shared at the May meeting



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Northeastern Region School IPM Working Group

- Overall goal: Develop a working group that assists states in the NE to meet the National PMSP goal of IPM implementation in all schools by 2015



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Northeastern Region School IPM Working Group Objectives and Anticipated Impact

- Organize a group of diverse and representative sIPM stakeholders in the NE US.
- Cooperate with sIPM efforts throughout the US to reduce duplication and facilitate sharing
- Serve as a multiplier of K-12 teaching and learning tools to improve Understanding of IPM
- Identify needs, opportunities and priorities for research, extension, education and implementation of sIPM in the NE
- Develop a focused working group project for 2009



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North Central Region School IPM Working Group

- First conference call May 2007
- Initial group of 11 members
- Want to recruit representatives from all 12 states in the region
- Plan to meet in Aug in conjunction with Marc Lame's pilot project in Missouri



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North Central Region School IPM Working Group

- Members to include representatives from:
 - Structural
 - Parents
 - School administration
 - School operations
 - EPA regional reps (5,7, & 8)
 - Department of health
 - Extension personnel from MN, NE, IA, Wisc
 - SLA personnel from MI, MO, and IA



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Western Region School IPM Working Group

- 2006
 - 15 contacts from 7 western states
- 2007
 - 30 participants from 9 states
- 2008
 - Added Hawai'i and New Mexico



Western
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Western Region School IPM Working Group

Karl Arne	U.S. Environmental Protection Agency
Jaslyn Dobrahner	U.S. Environmental Protection Agency
Sherry Glick	U.S. Environmental Protection Agency
Mary Grisier	U.S. Environmental Protection Agency
Pat Copps	Orkin, Inc.
William Currie	International Pest Management Institute, Inc.
Jack Marlowe	Eden Advanced Pest Technologies
Lyndon Hawkins	Nopesticides.com
Paul Cardosi	EcoLab, Inc.
Paul Baker	University of Arizona
Al Fournier	University of Arizona Maricopa Agricultural Center
Dawn Gouge	University of Arizona Maricopa Agricultural Center
Jennifer Snyder	University of Arizona Maricopa Agricultural Center
Belinda Messenger	California Department of Pesticide Regulation
Kyrrah Sevco	Program Manager Ecology Action
Assefa Gebre-Amlak	Colorado State University



Western Region School IPM Working Group

• Sandra McDonald	Colorado State University
• John W. Scott	Colorado Department of Agriculture
• William Lanier	Montana State University
• Jon Carpenter	Nevada Department of Agriculture
• Sara Leverette	Oregon Environmental Council
• Tim Stock	Oregon State University
• Diane G. Alston	Utah State University
• Clark Burgess	Utah Department of Agriculture & Food
• Erin W. Hodgson	Utah State University
• Maggie Shao	Utah State University
• Gregg Smith	Salt Lake City School District
• Carrie Foss	Washington State University
• Alexandre Latchininsky	University of Wyoming
• L.C. 'Fudd' Graham	Auburn University
• Tom Green	IPM Institute of North America, Inc.
• Faith M. Oi	University of Florida



New Objectives

Conference Call April, 2008

- Expand the WRIPM to include Hawai'i, Alaska, New Mexico and Idaho
- Expand assessment of sIPM programs and activities in newly included western states
- Conduct national assessment of sIPM implementation tools using eXtension website
- Identify regional and national networking opportunities and promote workgroup involvement on projects that involve awareness, implementation and assessment of sIPM
- Promote work group objectives, members, activities, and resource findings to a national audience.



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Identification of Priority Goals and Regional Objectives

Research Priorities

1. Health issues and pesticides (connection between asthma, absenteeism, pests, and pesticide use) (21)
2. Cost of IPM in time and money (before and after comparison) (11)
3. Efficacy of reduced risk and pesticides (10)
4. Architectural design benefits (8)
5. IPM sustainability (why and how to make it sustainable) (6)
6. Academic performance (as related to pests and pesticides) (5)
7. How to market IPM (reduced jargon) (5)
8. Bed bugs (4)
9. Pest surveys in schools (follow-up) (4)
10. Policy options (local, state, federal) (3)



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Education Priorities

1. Outreach and tools to stakeholders [working] in [or with] the school system to
2. Drive demand for IPM (i.e., legislatures, superintendents, school staff, parents/PTOs, plumbers, roofers, carpenters, etc.) (26)
3. PCO training (to establish a standard such as technician certification) and
4. Outreach to the PCO organizations (15)
5. Incorporate sIPM as part of green building standards (e.g., Leadership in Energy and Environmental Design / Council of Educational Facility Planners) (14)
6. Broad public awareness campaign (P.S.A.) on risks associated with pesticides and what IPM is (13)



Barriers to IPM Implementation

1. Admin. and school board buy-in (18)
2. Lack of funding and support for university staff and school maintenance (14)
3. Time and resources for staff (11)
4. Lack of incentives to do IPM (10)
5. Poor RFPs (7)
6. For-profit business model to establish/reinforce that money can be made (6)



Pest Issues

1. Identification, biology, and behavior for all pests (15)
2. Landscape and Turf weeds (13)
3. Health issues related to pest presence (consequences of not treating) (12)
4. Ant identification (odorous house, argentine, fire, and carpenter) (11)
5. Clarity: what are proper thresholds? (6)
6. Invasive weeds (4)
7. Mice and rats (4)
8. Perceived pests (4)
9. Pigeons - pest birds (4)
10. Bed bugs (3)

<http://cals.arizona.edu/apmc/westernschoolIPM.html>



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Southern Region School IPM Working Group

Fudd Graham	Auburn University
John Hopkins	University of Arkansas Cooperative Extension Service
Faith Oi	University of Florida IFAS
Rebecca Baldwin	University of Florida IFAS
Gretchen Pettis	University of Georgia Cooperative Extension
Paul Guillibeau	University of Georgia Cooperative Extension
William Witt	University of Kentucky Plant and Soil Sciences
Mary Grodner	Louisiana State University AGCenter, CES
Dale Pollet	Louisiana State University AGCenter, CES
Blake Layton	Mississippi State University
Greg Lookabaugh	Texas Association of School Business Officials
Mike Page	Florida Dept of Ag and Consumer Services
Wayne Garfinkel	EPA Region 4
Herb Bolton	USDA-CSREES



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Southern Region School IPM Working Group

Godfrey Nalyanya	North Carolina State University
Jim Criswell	Oklahoma State University
Tom Royer	Oklahoma State University
Leslie Godfrey	Clemson University Department of Pesticide Regulation
Karen Vail	University of Tennessee
Janet Hurley	Texas AgriLife Extension
Michael Merchant	Texas AgriLife Extension
Don Renchie	Texas AgriLife Extension
Dini Miller	Virginia Tech
Jim VanKirk	Southern Region IPM Center
Rosemary Hallberg	Southern Region IPM Center
Steve Toth	NC State University
Tom Green	IPM Institute of North America
Dawn Gouge	University of Arizona



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Composition of this group/where to we go from here

- State Lead Agencies (ASPRO)
- Other regional school IPM workgroups
- School representatives (Association of School Business Officials and National School Plant Management Association)
- Regional EPA representatives
- Industry



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Identification of Priority Goals and Regional Objectives

Research

- Need efficacy data, with emphasis on low toxic approaches - 14
- Need study on total cost of IPM over the short term, mid term, and long term of in-house versus outsourced PM service - 12
- Need research that investigates relationships among medical problems, pests and pesticide exposure - 11



Extension

- One full-time paid staff per state devoted to IPM in schools - 9
- Have information for PCOs packaged differently from that for parents and schools and administrators - 9
- Professional marketing—need to get word out to general public - 9
- Regional publication system designed like the fire ants system - 7
- Poster or laminated handouts for people in schools identifying pests. Need photos of all life stages and evidence. Needs to be hand-held, as in flip card. ID Guide - 7
- See some mechanism for limited license holders—custodians that have IPM duties, where they could train. Peer to peer education with nontraditional pest managers - 5
- Collaborating as a group on peer review journal articles on what we know so the data is out there - 5
- Web site or clearinghouse where ALL of the pesticides used in schools can be viewed and has relative toxicity—have all in one place - 4



Regulatory

- Special certification for school IPM for ALL pesticide applicators who apply at the school - 16



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Mission Statement

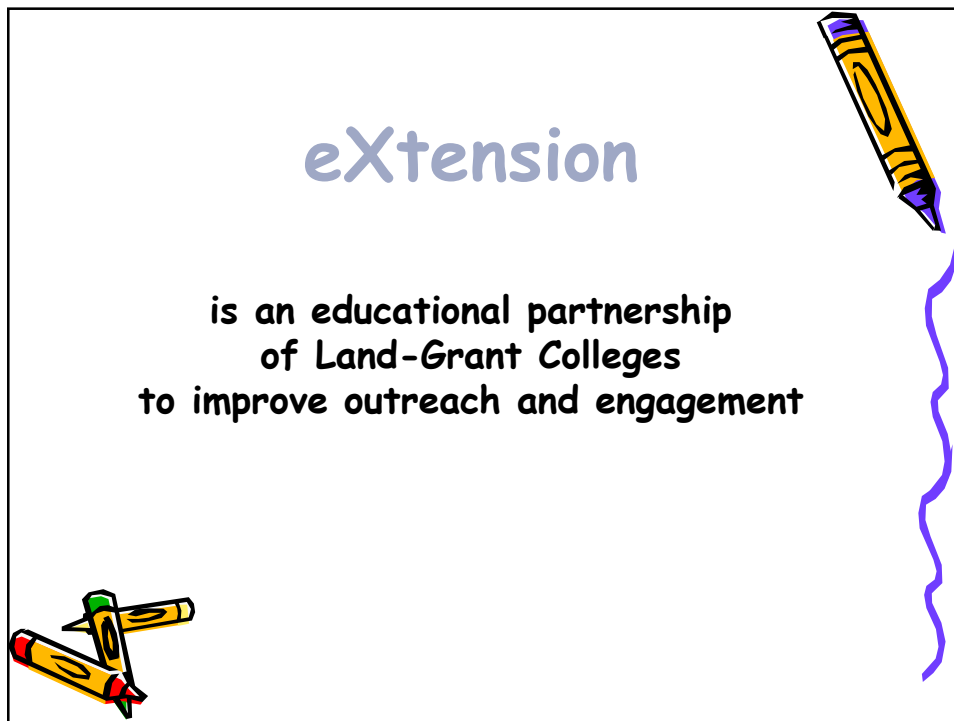
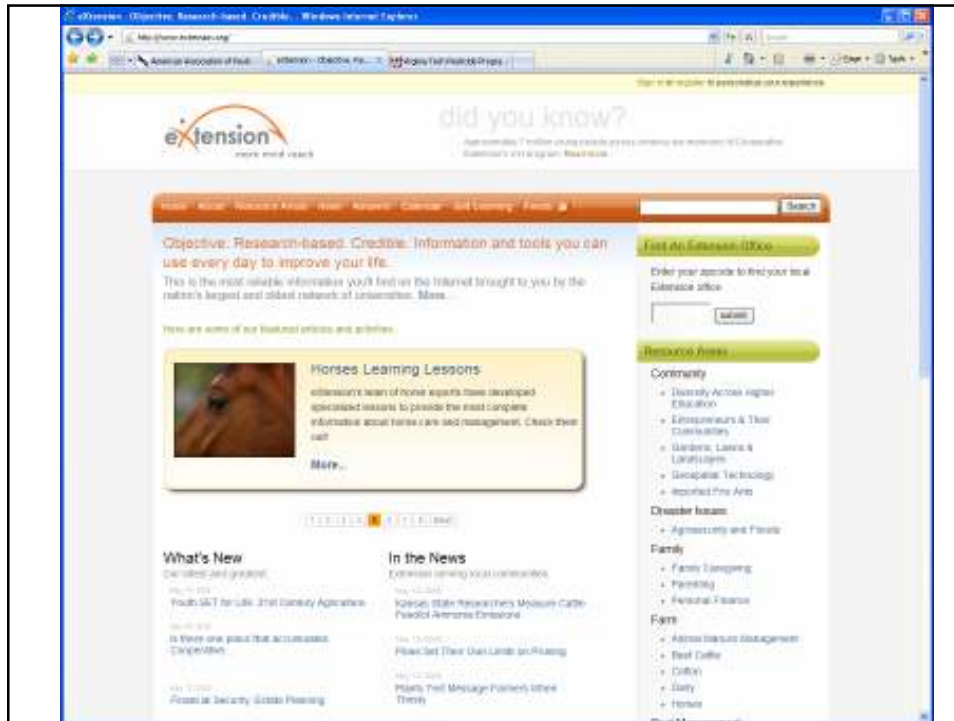
The Southern Region School IPM Working Group is dedicated to promoting the use and adoption of School Integrated Pest Management by:

- Setting goals and priorities that minimize and balance risks of pests and pest management strategies
- Collaborating and sharing resources with colleagues
- Identifying and pursuing resources together
- Producing and presenting new resources that are economically acceptable and practical



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eXtension VISION

- Any time, any place format for any device
- Available to clients 24/7/365
- Increases visibility of CES
- Promotes collaborative development and reduces duplication
- National shared strength - local customized focus



Objective: Research-based. Credits: Information and tools you can use every day to improve your life.

This is the most reliable information you'll find on the Internet brought to you by the nation's largest and oldest network of volunteers. More...

Here are some of our featured articles and activities:

Horses Learning Lessons

extension's team of horse experts have developed interactive lessons to provide the most complete, informative equine care and management. Check them out!

More...

What's New

- October 2014: Gardening and growing
- July 14, 2014: Youth SA7 for the 21st Century Agriculture
- July 14, 2014: Is Every one going that Accurate? Caring for the
- July 14, 2014: Personal Security: Global Planning

In the News

- Extension serving your community
- July 14, 2014: Kansas State University's Modern Cattle Festival Attracts Entourage
- July 14, 2014: How to Grow a
- July 14, 2014: How to Get Their Own Land on Airing
- July 14, 2014: Mark Twain Message: Values, Other Things

Find An Extension Offer

Order your agenda to find your local Extension office

Submit

Resource Areas

Community

- Diversity Across regions (EBook)
- Extensioners & Their Communities
- Gardens, Lawns & Landscapes
- Geospatial Technology
- Inland Fire Arts

Desktop Issues

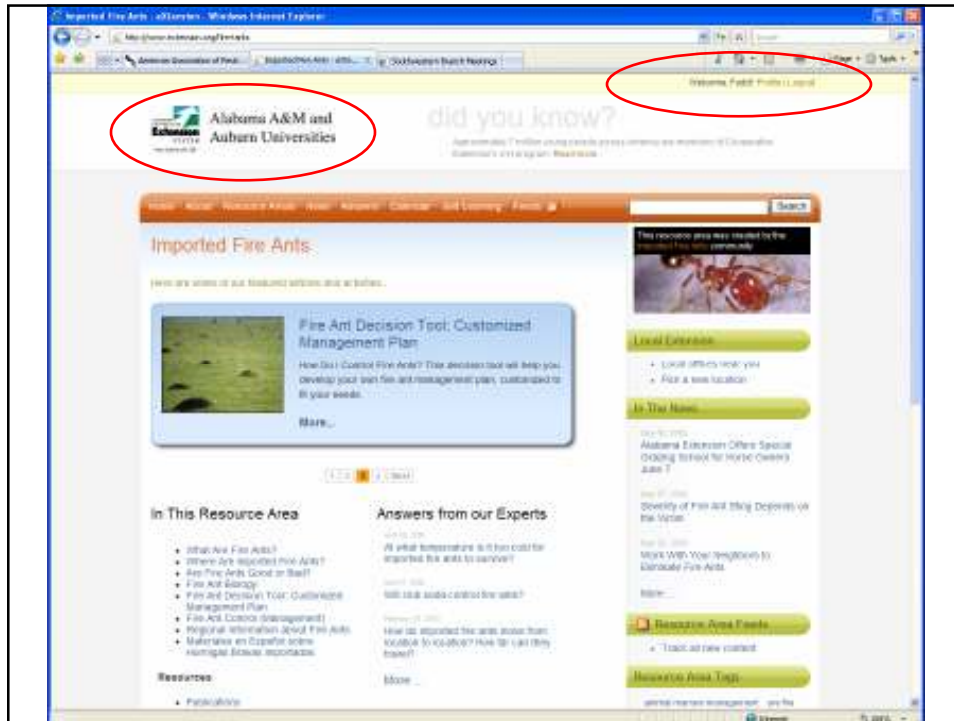
- Agronomy and Pests

Family

- Family Counseling
- Farming
- Financial Planning

Farm

- Access Issues Management
- Beef Cattle
- Dairy
- Daily
- Horses



The eXtension platform hosts information being built by each content-focused team, called a

Community of Practice (CoP)



Community of Practice (CoP) =

A network of subject matter content providers

- faculty / county educators
- professionals
- government agency representation
- industry experts
- clients

who share knowledge or competence in a specific content area and are willing to work together to develop and share that knowledge through educational products and programs.



There are now 21 CoPs

- **8 started in 2005**
- **13 started in 2006**
- **Each CoP receives funding to organize their team and launch their site (up to \$75,000)**
 - **Some teams have been able to start without this funding**



Resource Areas

Community

- Diversity Across Higher Education
- Entrepreneurs & Their Communities
- Gardens, Lawns & Landscapes
- Geospatial Technologies
- Imported Fire Ants

Disaster Issues

- Agrosecurity And Floods

Family

- Family Caregiving
- Parenting
- Personal Finance

Farm

- Beef Cattle
- Cotton
- Dairy
- Horses
- Livestock And Poultry Environmental Learning Centers

Pest Management

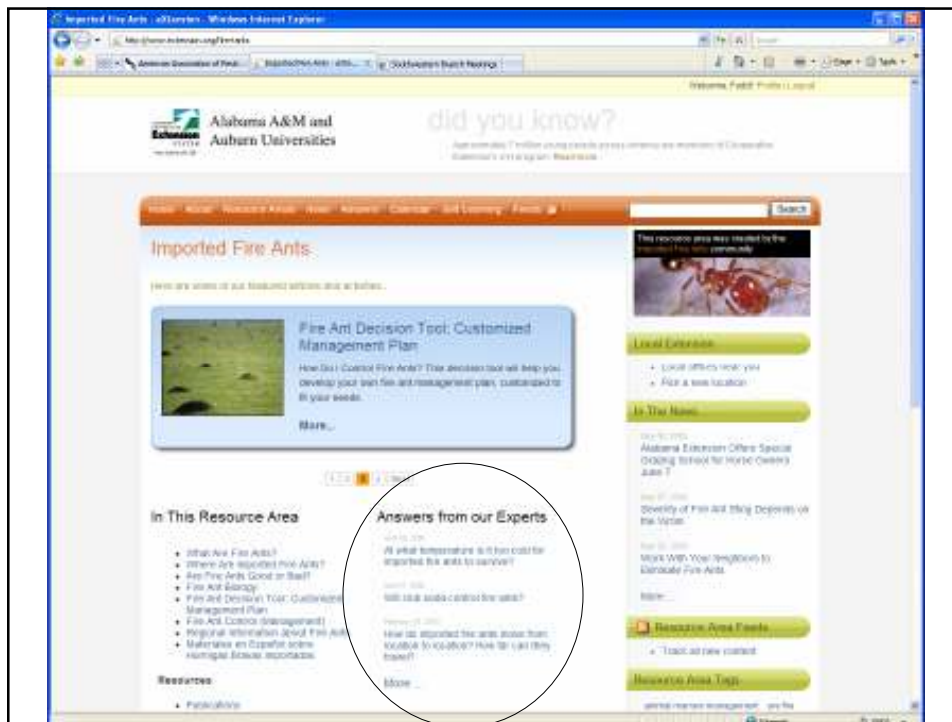
- Wildlife Damage Management

Youth

- Science, Engineering, And Technology For Youth

More resource areas are being added every month...

The screenshot shows a web browser window displaying the University of Arkansas website. The page features a navigation menu on the right side with the following sections: **Resource Areas**, **Community** (with sub-items: Diversity Across Higher Education, Entrepreneurs & Their Communities, Gardens, Lawns & Landscapes, Geospatial Technology, Imported Fire Ants), **Disaster Issues** (with sub-item: Agrosecurity and Floods), **Family** (with sub-items: Family Caregiving, Parenting, Personal Finance), **Farm** (with sub-items: Animal Disease Management, Beef Cattle, Cotton, Dairy, Horses), **Pest Management** (with sub-item: Wildlife Damage Management), and **Youth** (with sub-item: Science, Engineering, and Technology for Youth). Below the menu, there is a text box stating "More resource areas are being added every month...". The main content area includes a featured article titled "Cotton in the News" with a "More..." link, and sections for "What's New" and "In the News" with various news items and dates. A calendar for May 2015 is also visible at the bottom left.



Misc. Items

- Existing material
- Editing
- New material
- Calendar
- Post events in news
- Sponsors
- Credit from my institution
- Evolving



Joining a CoP is as easy as

1. Go to people.extension.org and create an eXtension ID.



Joining a CoP is as easy as

1. Go to people.extension.org and create an eXtension ID.
2. Indicate which Communities of Practice you would like to join (e-mail sent to team leaders).



Joining a CoP is as easy as

1. Go to people.extension.org and create an eXtensionID
2. Indicate which Communities of Practice you would like to join (e-mail sent to team leaders).
3. Take a short Wiki training to learn how to contribute to the site.



WIKI What?? or How do I figure this out?

- Breeze Technology - On-line meeting
- Conference Calls
- On-line training by eXtension staff



We are alike and all want the same thing

- Implement assessment programs to identify implementation status and prioritize needed improvements in individual school systems, e.g., IPM STAR.
- Establish highly visible demonstrations throughout the US.
- Develop a national school IPM coalition of stakeholder organizations to coordinate implementation of proven approaches nationwide.
- Partner with private pest management organizations, e.g., pest management professionals to create and implement effective and economical IPM service relationships.
- Create incentives for implementation, e.g., reduced liability costs, recognition and publicity.



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We are alike and all want the same thing

- Create structural and landscape maintenance IPM contract specifications for use by school purchasing agents.
- Increase funding for management, coordination, education, research and implementation.
- Activate environmental health and safety professionals by creating awareness of the need, potential and effective methodology for success.
- Establish appropriately trained IPM Coordinators in school systems.
- Establish efficient communication networks among stakeholders.
- Provide funding for school assessments including active participation by local actors including Extension.



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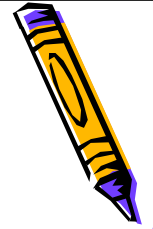
We all want the same thing

Verifiable IPM

- Control is based on pest biology
 - How does the insect behave?
 - What is the reproduction cycle?
- Inspection and monitoring results
 - No pests, no pesticide applications
- It is site specific
 - You don't have the same thing everywhere - old buildings, new buildings, etc.
 - Location, Location, Location



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Since we are so alike, we need to work together

- Increase funding opportunities by working within the framework of the National PMSP
- Promote regional cooperation within work groups
- Promote national cooperation between work groups



Regional IPM Centers



Acknowledgements

- Kathy Murray
- Tom Green
- Dawn Gouge
- Faith Oi
- Janet Hurley

