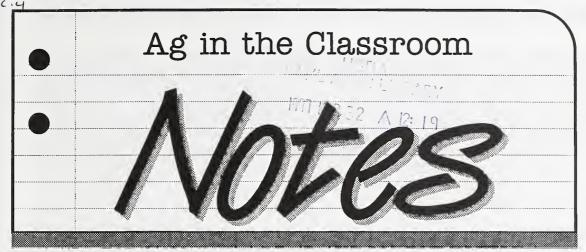
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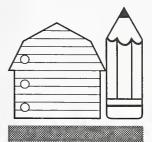
Do not assume content reflects current scientific knowledge, policies, or practices.





A bi-monthly newsletter for the Agriculture in the Classroom Program. Sponsored by the U.S. Dept, of Agriculture to help students understand the important role of agriculture in the United States economy. For information, contact the AITC Director, Room 4307, South Bldg., USDA, Washington, D.C. 20250-0991. 202/720-7925.

United States
Department of
Agriculture



JAN/FEB 97 Vol. 12, No. 1

Resource Guide Available

The 1996 edition of AITC's Resource Guide to Educational Materials About Agriculture is now available. This 112-page book is a compilation of materials that are available from across the United States that have been specifically developed for classroom use.

The 343 individual entries are listed alphabetically within four broad categories: printed materials; audio-visuals, posters, and teaching kits; resource guides or catalogues; and miscellaneous. They are indexed by title and content areas.

Entries cover the broad range of subjects that teachers must teach. "A Sour Subject" on page 3, teaches observation, mathematical computation, and written expression lesson in comparing a grapefruit to a lemon. "Who Gets Your Food Dollar?" on page 80 is a poster produced by the Farm Bureau showing that farmers receive only about 24 cents out of each dollar spent on food.

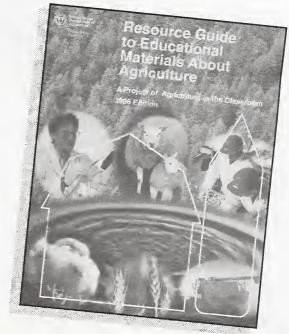
More than half the items in this year's Resource Guide are new. Examples include a game called "Beef-O Bingo" (page 86), which helps students learn about beef byproducts. "From Genes to Jeans" (page 22) introduces students to genetic research, technologies associated with agriculture, and plant breeding by showing how all these subjects play a role in producing the students' favorite pair of blue jeans. "Gone With the Wind" (page 23) teaches students about soil erosion and how to prevent it.

"The materials are increasingly sophisticated, as evidenced by having the first CD-ROM," says Betty Wolanyk, director of the national Ag in the Classroom Program. That CD, "From Moo to You"

(page 64) helps students learn about milk production and processing as they travel through barns, pastures, processing plants, supermarkets, and their school.

"The diversity and quality of materials continues to improve and expand," Wolanyk says. "It is our intent to update the *Resource Guide* on an annual basis."

The Resource Guide is available free of charge by contacting the Ag in the Classroom Office, Room 4309, South Building, U.S. Department of Agriculture, Washington, DC 20250-0991; 202-720-7925. The new AITC Resource
Guide lists resources that
can help tell agriculture's
story in the classroom.



From the Director:

Once again we have a great event planned for the National Ag in the Classroom Conference. The conference is scheduled for July 9-12, 1997 in Nashua, NH, at the Sheraton, Tara. This site is just north of the New Hampshire/Massachusetts border north of Boston. The short trip can be made by rental car, airport shuttle, or public transit bus. When you pre-register for the conference, we will send you a packet of information with those details included.

We have scheduled this conference for the summer to accommodate those individuals unable to attend in either May or June. We realize that this will provide a challenge for some of our regular attendees, but the conference agenda will recruit many newcomers. The hotel rates of \$75 per night – double or single – should also appeal to you. Registration fees may seem higher than our usual rate, but include all meals beginning with the Wednesday reception and ending at the Saturday luncheon. A traditional New England Lobster Bake is also part of the meal package.

I am thrilled that Dennis Avery (Global Food Progress and Saving the Planet With Pesticides and Plastics) will be our keynote speaker and that Jane Shaw (Facts Not Fear) is one of the authors scheduled to join us. These two authors have a perspective which challenges many commonly held beliefs about the environment. These speakers and others will ensure that this conference lives up to your expectations.

I would like to encourage you to extend your stay in New England by beginning with the fourth of July weekend, perhaps in Boston proper. What better place to celebrate our country's independence than in the back yard of John Adams, Samuel Adams, John Hancock, the Boston Tea Party, and the Midnight Ride of Paul Revere. We are seeking an events calendar to share with you for Fourth of July weekend activities. Bring your families!

We hope to see you there!

Elizabeth a. Holanyk

Elizabeth A. Wolanyk Director

Video: See the Art and Science of Cheesemaking

If the moon isn't made of green cheese, then where does all the cheese in the supermarket come from? Much of it comes from Wisconsin. Young viewers can get an in-depth look at how cheese is made in *The Art of Cheesemaking*, a 17-minute video produced by the Wisconsin Milk Marketing Board.

Making cheese, the video explains, involves a blend of nature, science, and artistry. Despite the myriad of different cheeses available, all cheesemaking uses fundamentally the same process. The video explains and demonstrates the steps involved in making any cheese, giving students a chance to see how milk that arrives at the cheesemaker in a stainless steel milk truck moves through testing, adding coagulants, cutting, stirring, pressing, and curing. At each step, cheesemakers combine their understanding of science (which temperature must be maintained during this process?) with

art (is the cheese aged to perfection, or could it be left a little longer).

After learning how all cheeses are made, students see the techniques that make one cheese different from another. There's plenty of information here to help students learn about how and why their favorite cheese has the flavor and texture it does.

Teachers who are interested in helping students learn how a raw agricultural product becomes a finished commodity will find *The Art of Cheesemaking* a valuable resource. But it will also answer questions from children who wonder how their favorite cheese – whether it's cheddar or string cheese – was made.

The Art of Cheesemaking is available from the Wisconsin Milk Marketing Board, 8418 Excelsior Drive, Madison, WI 53717; 608-836-8820. Cost is \$25.00. Specify order number 8050.

Spotlight

Investigating

ARS Teams Up With Ag in the Classroom

The Agricultural Research Service (ARS) has joined with Ag in the Classroom to produce and distribute two new resources that will help teachers and students learn about science. *Investigating Plants: Hands-On, Low-Cost Laboratory Exercises in Plant Science*, and *Science in Your Shopping Cart* are both available now from the AITC national office.

Investigating Plants, written by ARS scientists Thomas Sinclair and Marty Johnson.

was developed, they say,
"as a way for students to
do science rather than just
learn about science." And
while the experiments focus
on plant life, they should
also help students learn
important lessons about
discovery and the scientific

process.

The book presents 14 exercises that can be used to supplement the usual classroom activities in an introductory biology class. Each of the exercises is essentially independent – teachers can choose one or more depending on their curriculum.

Each activity includes educational objectives, a brief biology background, a description of the

experimental environment and materials required, a detailed presentation of procedures, information for students, topics to stimulate discussion, and ideas for further activities. Activities cover topics from flower and seed anatomy to germination to phototropism, transpiration, and competition.

Science in Your Shopping Cart demonstrates how ARS scientists have helped provide the abundance and variety of foods found on the supermarket shelves. The book offers example after example of the work ARS scientists have done.

For example, in "Potato A-Peel," readers learn that ARS scientists first invented the process of

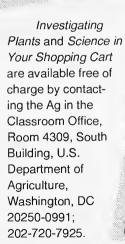
turning surplus potatoes into instant potato flakes. Scientists are also developing solutions to combat the *Phytophthora infestans* fungus, which can suddenly turn potatoes into a "slimy, smelly mess."

ARS scientists help assure the safety of beef and poultry products. From developing vaccines to ensure the health of beef cattle to identifying genes that can lead to leaner beef, their work

continues to meet the needs of consumers.

The book also includes some surprising information — for example, did you know that ARS has helped develop biodegradable cutlery? For teachers looking for resource material to supplement their own lessons, Science in Your Shopping Cart is an excellent publication.

Two free resource guides help students learn about science





Discovery Through Agriculture July 9-12, 1997 Sherton Tara • Nashua, NH

Preliminary Agenda

Tuesday, July 8, 1997

Pre-Conference Tour - Shelburne Farms (fee charged, lunch included) Optional Tour

Wednesday, July 9, 1997

8:00 a.m. Registration Open

8:00 a.m. - 6:00 p.m. Set Up Exhibits

10:00 a.m. - 12:00 p.m. Workshops

The Internet New England Dairy and Food

Council Materials
- Jane Cappannelli

Beginners - How to Use

the Internet - Debra Spielmaker

Utah Ag in the Classroom

National Gardening Association

- Jim Flint

Intermediate - Developing

a Home Page/Web Site - Becky Richmond and

Karen Kalsem (invited)

National Pork Producers Council

Noon - 2:00 p.m. Lunch on Your Own

2:00 p.m. - 3:00 p.m. Newcomer's Session

3:00 p.m. - 4:00 p.m. Make and Take Session

4:00 p.m. - 5:00 p.m. State Contacts Meeting

5:00 p.m. - 6:00 p.m. Facilitator Session

6:00 p.m. All Exhibits Set Up

6:30 p.m. - 8:30 p.m. Welcome to New England

Reception View Exhibits

Ag in the Classroom Consortium

Silent Auction Storyteller

Thursday, July 10,1997

7:00 a.m. - 8:00 a.m. Continental Breakfast

Coffee with the Consortium

8:00 a.m. - 9:30 a.m. Welcome to New Hampshire -

NH Commissioner of

Agriculture

Saving Wildlife with America's

High-Yield Agriculture
Speaker - Dennis Avery

2 minute ideas

Door Prizes

10:00 a.m. - 12:00 p.m. Science As Inquiry - Wisconsin

Fast Plants and Bottle Biology

Speaker - Dr. Judith Fischer,

Lesley College

12:00 p.m. - 12:30 p.m. Break

12:30 p.m. Teacher Recognition Luncheon

2 minute ideas Door Prizes

2:10 p.m. - 3:20 p.m. Round Table Session

3:30 p.m. - 5:00 p.m. Make and Take Session

4:00 p.m. - 5:00 p.m. Regional Meetings

5:30 p.m. - 6:30 p.m. Reception

6:30 p.m. Awards Banquet with Authors

and Video Producer

Jerry Pallotta, Going Lobstering and the Alphabet Book Series (The Spice Alphabet Book, The Victory Garden Vegetable Alphabet Book, The Icky Bug Alphabet Book, The Flower

Alphabet Book)

Thursday, July 10, 1997

6:30 p.m.

Jane Shaw, Fact Not Fear

Chris Peterson, Summer on the Farm 1 and 2 and Winter on the Farm Video Series

Secretary of Agriculture and The Commissioners of Agriculture From the New England State (invited)

Friday, July 11, 1997

Tours and On-site Mini-Work shops in New Hampshire, Maine and Massachusetts

Aquaculture/Marine Education

Tour Cranberry Bog/Plymouth Plantation/Ocean Spray Visitor Center Tour

Connecticut River Ecology/Sawmill/Sugarhouse/ Toothpick Factory Tour

Glass Milk Bottling/Diversified Farming/Food Processing Tour

Portland Fish Market/ Strawberry Production/Maple Production Tour

Brookdale Fruit Farm Lobster Bake How to Eat a Lobster Chaitanya York (Invited)

Make Your Own Ice Cream Dessert Entertainment-The Old Grey Goose (Invited)

Saturday, July 12, 1997

7:30 am-9:00 am Breakfast
2 Minute Ideas
Door Prizes

9:00 am-9:15 am Break

9:15 am-10:30 am Round Table Session

10:45 am-11:45 am *Workshops*

Educators Ag in the Classroom Staff and Volunteers

Educator Sharing Session Meet the New England Programs

AGRI-Enrich! AGRI-Inspire! AGRI-Innovate Through Children's Literature

- Dr. Larry Dale

Maine, New Hampshire, Vermont, Massachusetts,

Connecticut

- Lynne Blye, Moderator

Dig In (National Cattleman's Beef Association Materials)

- Barbara Selover

Fund Raising
- Marsha Purcell

(Other workshops to be determined)

11:45 am

Break

12:00 pm-2:00 pm

Lunch with Janet Gray,

Florida Teacher

2:00 pm

Conference Adjourned

2:00 pm-4:00 pm

Meeting of the Consortium of State Ag in the Classroom

Programs

6:30 p.m.

Conference Registration and Exhibit Fees

Please fill out this registration from for the conference and return it to the National Ag in the Classroom Office by June 6, 1997 to register for the conference. Early bird registration is \$175.00 if postmarked by June 6, 1997. Late registration is \$225.00 if postmarked after June 6, 1997 but before July 1, 1997. **THERE WILL BE NO EXCEPTIONS MADE!** Registering at conference will be \$250.00.

Exhibitor registration fee includes both booth space and registration fee for the conference. State Exhibits are free. Registration for exhibitors involved in the conference program is \$275.00. Registration for commercial exhibitors is \$375.00. Exhibitor registration at the conference is \$400.00.

Registration fees include all meals listed in the conference program beginning with the Wednesday evening reception.

All checks should be made out to New Hampshire Ag in the Classroom and mailed to

Ag in the Classroom Room 4309 S, USDA 1400 Independence Avenue, SW Washington, D.C. 20250

Exhibit and parcel shipments should be sent to:

Your Name, Ag in the Classroom Conference c/o Christine Tascione Sheraton Tara Hotel Tara Boulevard Nashua, NH 03062 Please mark Packages HOLD FOR ARRIVAL and plan for them to arrive after July 5, 1997.

Hotel

The 1997 National Ag in the Classroom Conference will be held in a castle, complete with suits of armor and a moat. The Sheraton, Tara is located just inside the border between New Hampshire and Massachusetts off of Route 3. Located about thirty miles north of Boston in a seemingly secluded location, the site is very convenient to other New England states for tours.

The Conference room rates are \$75.00 per night single or double occupancy. There is an 8% state occupancy tax. These rates will be in effect two days prior to and following the conference.

Make your reservations directly with the hotel by phoning (603) 888-9970 or through the automated reservation system at (800) THE TARA and keying into New Hampshire, the Nashua at the prompts. Identify yourself as attending the National Ag in the Classroom Conference. The deadline for reservations at this rate is June 10, 1997. Please make your reservations by that deadline to insure room availability.



1997 National Ag in the Classroom Conference Attendees Pre-registration Form

Name			
Address			
City		State Z	ip
Daytime telephone ()	Evening telephone ()		
Affiliation			
Teacher ☐ no ☐ yes grade leve	Board Member □	Ives One	
			T -
	me Departure Date		lime
Registration Fee (Make Checks Payable	to New Hampshire Ag in the Classroom)		
☐ Early Bird \$175.00 (postmarked by Jur	ne 6, 1997) □ Pre-Conference Regi	istration \$225.00 (postmarked	by July 1, 1997)
☐ Registration at Conference \$250.00	☐ I would like to attend the Shelburne Fa	arms Pre-Conference Tour - Fe	ee \$25.00
Recognition of Service			
Number of years you have been working	with Ag in the Classroom		
			Zip
Daytime telephone ()	Evening telephone ()		
Affiliation			
Arrival Date Ti	me Departure Date		Fime
Exhibitor Registration Fee - Includes co	nference registration (Make Checks Payable	e to New Hampshire Ag in the	Classroom)
☐ State Exhibit, one per state free of cha	arge (Fill out attendee registration and pay re	egistration fee indicated)	
☐ Exhibitor included in the program \$27	5.00 (postmarked by June 6, 1997)		
	arked by June 15, 1997) Exhibitor Regi		
I will require □1 six-foot table □ 2 six-f	oot tables ☐ electrical outlets ☐ wall spa	ace (no materials may be atta	ched to the wall)
Other, please specify			

JAN /1818 97

The individuals listed here are key reference persons in each state. If you have any questions, want to make reports, or need more information about your state's Ag in the Classroom program, contact the following:

Alabama Ms. Jane Alice Lee 2101 Bell Road Montgomery, AL 36117 334-240-7124

Ms. Brenda Summerlin Dept of Ag & Industries PO Box 3336 Montgomery, AL 36193 334-240-7124

P.O. Box 62 Willow, AK 99688-0062 907-495-1018

Mike Carlson Box 953 Delta Junction, AK 99737 907 895-4819 (H)

Arizona Arizona Farm Bureau 3401 East Elwood Street Phoenix, AZ 85040-1625 602-470-0088

Monica Pastor Chair, Arizona AITC Task Force 4001 E. Broadway #B-9 Phoenix, AZ 85040 602-437-1330

Arkansas Dr. Larry R. Dale ASU Center for Economic

Education P.O. Box 2890 State Univ., AR 72467-2890 501-972-3810

California Mr. Mark Linder CA Foundation for AITC 1601 Exposition Blvd FB 16 Sacramento, CA 95815 916-924-4380

Colorado Ms. Helen Davis Colorado Dept of Agriculture 700 Kipling St. #4000 Lakewood, CO 80215-5894 303-239-4114

Ms. Bette Blinde Colorado Foundation for Agriculture 28276 WCR 15 Windsor, CO 80550 970-686-7806

Connecticut Bernadet Kayan 510 Pidgeon Hill Rd. Windsor, CT 06095 203-683-1922

Ag in the Classroom---State Contacts

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Florida Ms. Doty Wenzel 545 E. Tennessee Room 206 Black Building Tallahassee, FL 32308 904-487-4973

Georgia Ms. Donna Reynolds Georgia Farm Bureau PO Box 7068 Macon, GA 31298 912-474-8411

Hawaii Mr. Michael Barros 2530 10th Avenue Bidg. A, Room 23 Honolulu, HI 96816 808-733-9125

Idaho Mr. Rick Waitley, Director Waitley Associates 1741 Gibson Way Meridian, ID 83642 208-888-0988

Illinois Illinois Farm Bureau Field Services Division 1701 Towanda Ave Bloomington, IL 61702-2901 309-557-3334

Indiana Ms. Pam Bright Office of Commission 150 West Market, Suite 414 Indianapolis, IN 46024 317-232-8769

Mr. Harry L. Pearson Indiana Farm Bureau P.O. Box 1290 Indianapolis, IN 46206 317-692-7851

Iowa Ms. Barbara Lykins Iowa Farm Bureau Federation 5400 University Avenue West Des Moines, IA 50266-5997 515-225-5425

Ms. Sandra Kramer 124 Bluemont Hall Kansas State University Manhattan, KS 66506 913-532-7946

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Mrs. Lynda Danos 2144 Highway 1 Raceland, LA 70394 504-448-2395

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Massachusetts Deborah C. Hogan c/o P.O. Box 1171 Lakeville, MA 02347 508-336-4426

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Ms. Julie Chamberlain Michigan Farm Bureau 7373 W Saginaw Hwy Lansing, MI 48909 517-323-7000

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Nevada Ben Damonte 1300 Marietta Way Sparks, NV 89431 702-853-6464

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New Jersey Ms. Joni Elliot NJ Dept. of Agriculture CN330 Trenton, NJ 08625 609-292-8897 or 633-7463

New Mexico Ms. Jennifer Hopper NM Farm & Livestock Bureau 421 N. Water Las Cruces, NM 88001 505-526-5521

New York Andrew Fagan New York AITC 408 Kennedy Hall Cornell University Ithaca, NY 14853-5901 607-255-8122

North Carolina Ms. Janice Shepard NC Farm Bureau PO Box 27766 Raleigh, NC 27611 919-782-1705

North Dakota Ms. Sarah Nordby ND Dept. of Agriculture HC 1, Box 9 Amidon, ND 58620 701-224-4757

Ohio Ms. Judy Roush Ohio Ag Awareness Council PO Box 479 Columbus, OH 43216-0479 614-249-2429

Oklahoma Ms. Kay Walker OK State Dept. of Ed. Ag in the Classroom Coord. 2500 N. Lincoln (Room 315) Oklahoma City, OK 73103-4599 405-522-0638

Ms. Jo Theimer Oklahoma Dept. of Agriculture 2800 No. Lincoln Bldg. Oklahoma City, OK 73105-4298 405-521-3864 FAX 405-521-4912

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Guam Guam Resident Instruction Coorinator College of Ag & Life Sciences University of Guam Mangialo, Guam 96923 671-735-2009 Fax 671-734-6842

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Mr. Otis Hicks PO Box 804 Christianstad St. Croix, VI 00821-0804 809-773-0758

Ag in the Classroom Notes

Room 4307, South Bldg. U.S. Department of Agriculture Washington, D.C. 20250-0991

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