



# AQUATIC PLANT NEWS

A newsletter of the Aquatic Plant Management Society, Inc. No. 46 May 1994  
Wendy Andrew, Editor, 10616 Bay Lake Road, Groveland, Florida 34736

## TEXAS HOSPITALITY AWAITS YOU AT THE 34TH ANNUAL MEETING!!!

So, after looking over the program included in this newsletter, you've made arrangements to attend the 34th Annual Meeting in San Antonio. Great decision! Now what about expanding the experience with some professional and personal extras?

Sunday there will be a field trip to San Marcos, about 35 miles northeast of San Antonio. Highlights include Southwestern State University's Aquatic Studies Laboratory, where a giant ramshorn snail evaluation is ongoing; a glass-bottom boat tour of Aquarena Springs (a popular tourist attraction), where just about every submersed aquatic known in Texas fights for space; and a look at the endangered Texas Wild Rice in the San Marcos River within the city limits and near a state fish hatchery. Early regis-

tration can ensure a seat on this adventure. The cost is \$20, which includes entrance fees and transportation. Lunch will be available for about \$5. If you took advantage of a special airfare and came in on Saturday, this is a good way to spend extra time and savings and see a little of Texas. The bus boards at the hotel at 11 a.m. and returns by 4 p.m., in plenty of time to freshen up for the President's Reception.

San Antonio is known as a great vacation destination. Plan to bring your family. The hotel is within walking distance of many, many attractions, which can ease their pain of separation while you attend the meeting sessions. Take an extra day or two and enjoy a theme park (Fiesta Texas and Sea World of Texas), the McNay or Witte Art Museums, Lone Star Brewery and its

famous Hall of Horns, five historic Missions and/or world class golf. Within a mere 150 miles (can you tell we're on Texas scale?) are the Gulf Coast for fishing, Padre Island National Seashore for sunning, and Laredo, Mexico for shopping. The atmosphere of San Antonio and the Riverwalk will make the 34th Annual Meeting one to remember. Bring along a friend to enjoy it too.

Mark your calendars: July 10-13, APMS, San Antonio. The registration for the meeting is the same as last year. Participant is \$75 pre-registration, and \$90 after June 30th. Spouse/child is \$50 pre-registration and is \$65 late. Rooms at the Hilton Palacio de Rio are \$104/single and \$114/double. Call 210/222-1400 for reservations. See you in the Lone Star State!!!

**THIRTY-FOURTH ANNUAL MEETING OF THE  
AQUATIC PLANT MANAGEMENT SOCIETY, INC.**

**AND**

**SIXTH ANNUAL MEETING OF THE  
TEXAS AQUATIC PLANT MANAGEMENT SOCIETY**

**JULY 10-13, 1994**

**HILTON PALACIO DEL RIO, SAN ANTONIO, TEXAS**

**TENTATIVE PROGRAM INSIDE**

# What Are The Limits of Aquatic Systems?

Aquatic scientists often compare the values of different aquatic variables they collect to those reported by scientists from other parts of the world. This fundamental exercise contributes to the knowledge of ecological limits these variables can have. In addition, these comparisons often reveal interesting aspects (or inconsistencies!) in the data. When newly measured values are close to the minimum or maximum reported values, they indicate measurements that may need to be reexamined for correctness or the values may add insight into the ecological functions of that particular system.

Hence, we believe that there is a need for a comprehensive compilation of published ranges of physical, chemical, and biological variables that have been measured by other aquatic scientists in rivers, lakes, wetlands and oceans.

The following is a partial list of the types of values that should be compiled: Physical properties: altitude, latitude, area, depth, residence time,

sedimentation rate, current, turbulence, density, temperature, optical properties, etc... Chemical properties: salinity, specific conductance, conservative ion concentrations, nutrient concentrations, oxygen concentrations, dissolved organic carbon, etc... Biological properties for primary producers (aquatic macrophytes, algae), bacteria, protozoa, zooplankton, fish, amphibians, aquatic reptiles, aquatic birds and other aquatic wildlife: biomass, metabolism (respiration, photosynthesis), immigration, reproduction, growth, recruitment, mortality (natural and harvested), emigration etc...

We are attempting to organize this type of data and publish it in an appropriate journal for the general use of aquatic scientists around the world. We ask for your help with this task. If you have measured or know of a value for an ecological variable that may represent a high or low limit and have some way of citing the work so that the scientific community can use it, please send the documentation of

this value (date and location of sample, method, value, and citation) to us. We have no funding for this project and thus no real deadline. We believe, however, that with your help a completion date of 1996 seems reasonable. We will make sure contributors get a free copy of the finished product.

Thank you for your help.

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## ATTENTION EMPLOYERS

One of the many functions of our Society is to assist those seeking employment in aquatic plant management professions to know of available employment opportunities, and vice versa. This responsibility is given to the Placement Committee. The Committee is asking all Company owners, Supervisors,

Personnel staff, etc. who have current employment opportunities, or anticipate any in the future to announce them in our newsletter or contact the Placement Committee Chair (Ken Langeland, 904-392-9614). Likewise, anyone seeking employment should contact Ken. The Committee will also provide a

bulletin board at the Annual Meeting in San Antonio for announcements of employment opportunities or employment being sought.

Ken would also like to encourage anyone who is interested to sign up at the meeting to chair or be a member of the Placement Committee next year.



OFF TO  
TEXAS WE  
GO > >

## TENTATIVE PROGRAM

### THIRTY-FOURTH ANNUAL MEETING OF THE AQUATIC PLANT MANAGEMENT SOCIETY, INC.

AND

### SIXTH ANNUAL MEETING OF THE TEXAS AQUATIC PLANT MANAGEMENT SOCIETY

**JULY 10-13, 1994**

**HILTON PALACIO DEL RIO  
SAN ANTONIO, TEXAS**

#### **SUNDAY, JULY 10, 1994**

- 8:00 AM APMS Board of Directors Breakfast
- 8:30 AM APMS Board of Directors Meeting
- 11:00 AM- Aquatic Plant Field Trip to San Marcos  
4:00 PM (preregistration required)
- 3:00 PM- Registration  
*Salon del Rey pre-function area*
- 6:00 PM
- 7:00 PM President's Reception  
*Salon del Rey South/Terrace Garden*

#### **MONDAY, JULY 11, 1994**

- 8:00 AM- Registration  
5:00 PM *Salon del Rey pre-function area*
- 9:00 AM- Exhibits on Display  
5:00 PM *Salon del Rey South*
- 9:30 AM- Spouses' Riverwalk Boat Tour  
11:30 AM Meet in main lobby

#### **Session I**

*Salon del Rey N&C*

Presiding: Joe Zolczynski, President

- 8:30 AM Call to Order
- 8:35 AM Welcome
- 8:45 AM Announcements
- 9:00 AM APMS Chapter Reports  
Texas APMS Report and  
Presidential Address: Malcolm C. Johnson, III  
Florida APMS:  
MidSouth APMS:  
Midwest APMS:  
South Carolina APMS:  
Western APMS:
- 9:45 AM Presidential Address: Joe Zolczynski
- 10:00 AM **Break**
- 10:15 AM Invited Speaker
- 10:45 AM Then, Now, and Where We Must Be.  
**John Gallagher**, Aquatic Weed Scientist (retired)
- 11:15 AM APMS Business Meeting
- 11:45 AM **Lunch**

#### **Session II**

*Salon del Rey N&C*

#### **Aquatic Plant Management in Texas**

Moderator: Kelly Duffie  
Estes Inc.  
Houston, TX

- 1:15 PM Extension Methods for Aquatic Vegetation  
Management in Texas. **Jim Davis**, Texas  
Agricultural Extension Service, Texas A&M  
University, College Station, TX.
- 1:30 PM An Overview of Commercial Aquatic Plant  
Management in Private Texas Impoundments.  
**Mac McCune**, Lake Management Services, Inc.,  
Richmond, TX.

- 1:45 PM Aquatic Plant Control and Water Management. **John Wedig**, Lower Colorado River Authority, Austin, TX.
- 2:00 PM Aquatic Plant Control at Lake Cypress Springs. **Ed Withers**, Franklin County Water District, Mt. Vernon, TX.
- 2:15 PM Management of Shallow Impoundments in North Texas to Provide Emergent and Submergent Vegetation for Waterfowl. **Len G. Polasek**, Dept. of Wildlife and Fisheries Sciences, Texas A&M University, College Station, TX. **Student Paper**
- 2:30 PM Cold Temperature Limitations on the Growth of Waterhyacinths. **Chetta S. Owens** and John D. Madsen, AScI Corporation, Lewisville, TX and U.S. Army Engineer Waterways Station, Lewisville Aquatic Ecosystem Research Facility, Lewisville, TX.
- 2:45 PM Carbon Source for Submerged Leaves of the Endangered *Zizania texana* (Texas Wildrice). **P. Power**, Southwest Texas State University San Marcos, TX and R.D. Doyle, U.S. Army Engineer Waterways Station, Lewisville Aquatic Ecosystem Research Facility, Lewisville, TX.

3:00 PM **Break**

- 3:15 PM An Overview of Grass Carp Use in Texas. **Earl W. Chilton II**, Texas Parks and Wildlife Department, Austin, TX.
- 3:30 PM An Investigation of Grass Carp Spawning in the Lower Trinity River, Texas. **Mark A. Webb**, Texas Parks and Wildlife Department, Bryan, TX.
- 3:45 PM The Biology of Free-ranging Grass Carp in East Texas River and Bay Systems. **Howard S. Elder** and Brian R. Murphy, Dept. of Wildlife and Fisheries Sciences, Texas A&M University, College Station, TX. **Student Paper**
- 4:00 PM Effectiveness of Low-Density Triploid Grass Carp Stockings. **Brian Blackwell** and Brian R. Murphy, Dept. of Wildlife and Fisheries Sciences, Texas A&M University, College Station, TX. **Student Paper**

4:15 PM The Corps' Lewisville Aquatic Ecosystem Research Facility: New Opportunities for Aquatic Plant Research, Education, and Cooperation in the State of Texas. **R. Michael Smart**, U.S. Army Engineer Waterways Station, Lewisville Aquatic Ecosystem Research Facility, Lewisville, TX.

4:30 PM Angler Opinions on Fishery Management Tools: Who Wants What? **Robin K. Riechers**, Texas Parks and Wildlife Department, Austin, TX.

4:45 PM Imazapyr for Controlling Shoreline, Marginal and Ditchbank Vegetation. **Michael Standish**, American Cyanamid Company, Granger, TX.

5:00 PM Texas APMS Business Meeting

7:00 PM Elf Atochem Reception

## TUESDAY, JULY 12, 1994

6:45 AM Local Chapter Presidents Breakfast

### Session III

*Salon del Rey N&C*

### Ecology and Physiology

Moderator: Michael Smart  
U.S. Army Engineer Waterways Station  
Lewisville, TX.

8:30 AM Potential Impact of Turtle Herbivory on Aquatic Macrophyte Communities. **Gary O. Dick** and R. Michael Smart, AScI Corporation, Lewisville, TX and U.S. Army Engineer Waterways Station, Lewisville Aquatic Ecosystem Research Facility, Lewisville, TX.

8:45 AM Aquatic Plant Feeding Preferences by the Red-Eared Turtle. **Kimberly J. Mauermann**, Gary O. Dick, and R. Michael Smart, U.S. Army Engineer Waterways Station, Lewisville Aquatic Ecosystem Research Facility, Lewisville, TX.

- 9:00 AM The Effects of Aquatic Plant Communities on Water Quality. **David R. Honnell**, John D. Madsen, and R. Michael Smart, ASci Corporation, Lewisville, TX and U.S. Army Engineer Waterways Station, Lewisville Aquatic Ecosystem Research Facility, Lewisville, TX.
- 9:15 AM Foraging Efficiency and Growth of Juvenile Largemouth Bass Associated with Exotic and Native Aquatic Macrophytes. **R.M. Crouch**, U.S. Army Engineer Waterways Station, Lewisville Aquatic Ecosystem Research Facility, Lewisville, TX. **Student Paper**
- 9:30 AM Dynamics of *Eichhornia crassipes* and Related Aquatic Plants in Lake Chapala. **Eric Gutierrez**, Felipe I. Arreguin, Manuel Guzman A., and Gualberto Limon M., Instituto Mexicano de Tecnologia del Agua, Paseo Cuauhnauac, Mexico; Instituto de Limnologia, Universidad de Guadalajara, Chapala, Mexico; Disenos Hidraulicos y Tecnologia Ambiental, Guadalajara, Mexico.
- 9:45 AM Environmental Influences on the Early Phenology of Monoecious Hydrilla in Lake Gaston. **Chad R. Coley** and Stratford Kay, Crop Science Dept., North Carolina State University, Raleigh, NC. **Student Paper**
- 10:00 AM **Break**
- 10:15 AM Long-Term Competition Between American Lotus and Eurasian Watermilfoil. **Joe R. Snow**, R. Michael Smart, and Gary O. Dick, U.S. Army Engineer Waterways Station, Lewisville Aquatic Ecosystem Research Facility, Lewisville, TX and ASci Corporation, Lewisville, TX.
- 10:30 AM Reproductive Biology of Southern Naiad in Southwest Florida. **John R. Cassani**, E. Lasso de la Vega, and H.P. Allaire, Lee County Hyacinth Control District, Fort Myers, FL.
- 10:45 AM Abscissic Acid Induced Changes in Gene Expression During Leaf Development in the Aquatic Macrophyte, *Potamogeton nodosus*. **Doreen Gee**, U.S. Dept. of Agriculture ARS, Aquatic Weed Control Research Laboratory, University of California, Davis, CA. **Student Paper**
- 11:00 AM Some Chemical and Biochemical Characteristics of Six Lakes in Northwest Hillsborough County, Florida. **Andrew L. Hassell**, Patricia M. Dooris, and **Dean F. Martin**, Institute for Environmental Studies, Dept. of Chemistry, University of South Florida, Tampa, FL.
- 11:15 AM Monitoring Physiological Effects of Triclopyr and Fluridone on Non-Target Aquatic Plant Species. **Susan L. Sprecher** and Anne B. Stewart U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS and ASci Corporation, Vicksburg, MS.
- 11:30 AM Effects of Flurprimidol on the Growth and Carbohydrate Status of Eurasian Watermilfoil. **Linda S. Nelson**, U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS.
- 11:45 AM Random Amplified Polymorphic DNA (RAPD) Reactions Can Identify the Hydrilla Biotypes Found in the U.S. **Frederick J. Ryan**, U.S. Dept. of Agriculture ARS, Aquatic Weed Control Research Laboratory, University of California, Davis, CA.
- 12:00 PM **Lunch**
- Session IV**  
*Salon de Rey N&C*  
**Preventing Aquatic Weed Infestations**
- Moderator: Randy G. Westbrooks  
USDA APHIS PPQ  
Whiteville, NC.
- 1:15 PM Biological Pollution: A Historical Perspective of Aquatic Weeds in the United States. **Randy G. Westbrooks**, U.S. Dept. of Agriculture APHIS PPQ, Whiteville, NC.
- 1:45 PM Aquatic Weeds Intercepted by the U.S. Department of Agriculture. **Larry Fowler**, U.S. Dept. of Agriculture, APHIS PPQ, Brownsville, TX.
- 2:00 PM Water Spinach (*Ipomoea aquatica*): a crop in California, a weed in Florida. **Mario Rodriguez**, U.S. Dept. of Agriculture APHIS PPQ DEO, Hyattsville, MD.

2:15 PM Florida's Noxious Aquatic Plant Prevention Program. **William E. Caton**, Bureau of Aquatic Plant Management, Dept. of Environmental Protection, Tallahassee, FL.

2:30 PM Screening Criteria for Potentially Invasive Nonindigenous Plants: A Florida Model. **Kathy Burks**, Michael Kane, Greg Jubinsky, Bureau of Aquatic Plant Management, Dept. of Environmental Protection, Tallahassee, FL. and University of Florida, Gainesville, FL.

2:45 PM North Carolina Aquatic Weed Prevention Program. **David DeMont**, Division of Water Resources, Dept. of Environment, Health and Natural Resources, Raleigh, NC.

3:00 PM California Hydrilla Eradication Program. **Ross O'Connell** Dept. of Food and Agriculture, Sacramento, CA.

3:15 PM **Break**

#### Session V

*Salon del Rey N&C*

#### Management Strategies and Techniques

Moderator: Fred Nibling, Jr.  
U.S. Bureau of Reclamation  
Denver, CO

3:30 PM Short-Term Summer Drawdown as a Potential Tool for Management of Monoecious Hydrilla. **Angela G. Poovey** and Stratford H. Kay, Crop Science Dept., North Carolina State University, Raleigh, NC. **Student Paper**

3:45 PM Analysis of Copper in Aqueous Systems. **Emily Deaver** and John H. Rodgers, Jr., Dept. of Biology, University of Mississippi, University, MS. **Student Paper**

4:00 PM Restoring Lake Jackson, Osceola Co., Florida, Mikel W. Hulon, Florida Game and Freshwater Fish Commission, Kissimmee, FL.

4:15 PM GPS/GIS Mapping and Applications for Aquatic Plant Management. **Terry McNabb**, Resource Management, Inc., Tumwater, WA.

4:30 PM Habitat Manipulation Using Sonar in a Waterfowl Management Wetland. **David Tarver**, SePRO, Tallahassee, FL.

6:00 PM- Awards Banquet: **A Texas Ho-Down**  
10:00 PM

### WEDNESDAY, JULY 13, 1994

#### Session VI

*Salon del Rey N&C*

#### Management Strategies and Techniques

Moderator: Kurt Getsinger  
U.S. Army Engineer Waterway Station  
Vicksburg, MS

8:30 AM Evaluation of Copper Herbicides for the Control of Waterhyacinth (*Eichhornia crassipes*). Ken Langeland, **Brian Smith**, and Neil Hill, IFAS Center for Aquatic Plants, University of Florida, Gainesville, FL.

8:45 AM Evaluation of *Eichhornia crassipes* Control Strategies in Lake Chapala. **Gualberto Limon M.**, Eric Gutierrez, Pilar Saldana, Jesus Rodriguez P., and Ruben Huerto, Disenos Hidraulicos y Tecnologia Ambiental, Guadalajara, Mexico; Instituto Mexicano de Tecnologia del Agua, Paseo Cuauhnauac, Mexico.

9:00 AM Integrated Control of Waterhyacinth with Weevils and Paclobutrazol. **Thai K. Van** and Ted D. Center, U.S. Dept. of Agriculture, ARS, Fort Lauderdale, FL.

9:15 AM Removal of Triploid Grass Carp Using Fish Management Bait (FMB). **Craig T. Mallison**, **Rue S. Hestand III**, and Boyd Z. Thompson, Florida Game and Freshwater Fish Commission, Eustis, FL.

9:30 AM AMUR/STOCK Simulation for Examination of the Effects of Site Conditions on Plant Control by Grass Carp. **R.M. Stewart** and W.A. Boyd, U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS.

9:45 AM An Overview of Current Biological Control Research for the Management of Aquatic Plants. **Alfred F. Cofrancesco**, Michael J. Grodowitz, and Ted Center, U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS and USDA ARS, Aquatic Plant Control Research Center, Fort Lauderdale, FL.

10:00 AM **Break**

10:15 AM Use of Native Aquatic Plants for Control of Nuisance Species in Guntersville Reservoir, Alabama. **R.D. Doyle** and R.M. Smart, U.S. Army Engineer Waterways Station, Lewisville Aquatic Ecosystem Research Facility, Lewisville, TX.

10:30 AM Laboratory Evaluations of Fluridone for Control of Hydrilla and Eurasian Watermilfoil. **M.D. Netherland** and K.D. Getsinger, U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS.

10:45 AM Preliminary Evaluation of Water Exchange Characteristics at Lake Gaston and Implications for Herbicide Efficacy. **Stratford H. Kay**, Steve Hoyle, Chad Coley, and Angela Poovey, Crop Science Dept., North Carolina State University, Raleigh, NC.

11:00 AM Phenological Timing of Control Technologies for Eurasian Watermilfoil. **John D. Madsen**, U.S. Army Engineer Waterways Station, Lewisville Aquatic Ecosystem Research Facility, Lewisville, TX.

11:15 AM Progress on Eradicating Catclaw Mimosa in Florida. **David L. Sutton** and Kenneth A. Langeland, University of Florida, IFAS, Fort Lauderdale Research and Education Center and Center for Aquatic Plants, Gainesville, FL.

11:30 AM Effects of Sub Lethal Doses of Garlon 3A and Komeen on Canopy Structure of *Myriophyllum spicatum*. **Lars W.J. Anderson**, U.S. Dept. of Agriculture, ARS, Aquatic Weed Control Research Laboratory, University of California, Davis, CA.

11:45 AM **APMS Business Meeting**

12:00 PM **Adjournment**

12:30 PM **APMS Board of Directors Lunch/Meeting**

### Alternate Papers

Still Sampling Hydrilla Tubers - Don't We Ever Learn? **Alison Fox** and Bill Haller, IFAS Center for Aquatic Plants, University of Florida, Gainesville, FL.

The Effects of Triploid Grass Carp and Sonar Treatments on Aquatic Plants in Lake Yale. **Rue S. Hestand, III**, Boyd Z. Thompson, and Craig T. Mallison, Florida Game and Freshwater Fish Commission, Eustis, FL.

*Egeria densa*: Problems and Potential Solutions for the Sacramento Delta. **Lars W.J. Anderson** and Suzanne Fellows, U.S. Dept. of Agriculture, ARS, Aquatic Weed Control Research Laboratory, University of California, Davis, CA.

### TUESDAY EVENING PROGRAM

**July 12, 1994**  
**6:00-10:00 PM**

**A Texas Ho-Down**  
**at the Don Strange Ranch**

Transportation provided from the hotel.  
Meet in front of hotel on Alamo Street at 5:20 PM for bus transportation.

Casual Dress

# THE AQUATIC PLANT MANAGEMENT SOCIETY, INC.

## Application for Membership

The Aquatic Plant Management Society, Inc. is an international organization of scientists, educators, students, commercial pesticide applicators, administrators and concerned individuals interested in the management and study of aquatic plants. The membership reflects a diversity of federal, state and local agencies; universities and colleges around the world; corporations; and small businesses.

Originally called the Hyacinth Control Society, Inc., when founded in 1961, The Aquatic Plant Management Society, Inc. is a respected source of expertise in the field of biological, mechanical, chemical and other methods of aquatic plant sciences. The Society has grown to include several regional and state chapters; and through these affiliates, annual meetings, newsletters, and the *Journal of Aquatic Plant Management*, members keep abreast of the latest developments in the field.

The objectives of the society are to assist in promoting the management of nuisance aquatic plants, to provide for the scientific advancement of members of the society, to encourage scientific research, to promote university scholarship, and to extend and develop public interest in the aquatic plant science discipline.

NAME OF APPLICANT \_\_\_\_\_ SPOUSE'S NAME \_\_\_\_\_

HOME ADDRESS \_\_\_\_\_ ZIP CODE \_\_\_\_\_

CURRENT TITLE, BUSINESS OR INSTITUTION NAME, AND ADDRESS \_\_\_\_\_

\_\_\_\_\_ ZIP CODE \_\_\_\_\_

WORK PHONE \_\_\_\_\_ HOME PHONE \_\_\_\_\_

*There are three regular classes of membership available to applicants, according to the Charter of the APMS which was adopted in 1961. These classes are:*

- A. ACTIVE MEMBERSHIP ..... \$ 35
- B. STUDENT MEMBERSHIP ..... \$ 5
- C. COMMERCIAL SUSTAINING MEMBERSHIP ..... \$500

AMOUNT OF REMITTANCE \$ \_\_\_\_\_

SIGNATURE OF APPLICANT: \_\_\_\_\_

Please check the following to indicate desired membership class and for additional information!

**Membership Class:**

- ☐ Active
- ☐ Student
- ☐ Commercial Sustaining
- ☐ Subscription

**Please Send Information Regarding Regional Affiliates:**

- ☐ Florida Aquatic Plant Management Society
- ☐ Mid-South Aquatic Plant Management Society
- ☐ Midwest Aquatic Plant Management Society
- ☐ South Carolina Aquatic Plant Management Society
- ☐ Western Aquatic Plant Management Society
- ☐ Texas Aquatic Plant Management Society

Send this form to: The Aquatic Plant Management Society, P.O. Box 2695, Washington, DC 20013-2695.

The Aquatic Plant Management Society, Inc.  
P.O. Box 2695  
Washington, DC 20013-2695