



# **GEOLOGICAL ASSOCIATION OF NEW JERSEY**

**FALL NEWSLETTER  
2010**

**GANJ XXVII**

## **THE GEOLOGY OF THE TRENTON AREA ITS IMPACT ON THE HISTORY OF DEVELOPMENT AND THE NEED FOR GEOLOGIC INVESTIGATION IN THE FUTURE ANNUAL CONFERENCE AND FIELD TRIP**

**October 8 and 9, 2010**

**The New Jersey State Museum - Trenton, New Jersey**

As announced in the spring, the 27<sup>th</sup> Annual Geological Association of New Jersey (GANJ) conference and field trip will focus on the geology of the Trenton, New Jersey area and its influence on local history. A wide range of topics in geology will be covered, but there will also be some discussion of local archeology and history. New this year as the initial field trip stop will be a short walking tour to see archeological research and geologic materials as used in local building construction. In addition, there will be opportunities to see the exhibits in the New Jersey State Museum.

The museum displays, with an emphasis on New Jersey, will be open all day Friday, including before the conference. There will also be tours of some of the inner workings of the museum that are not typically on view to the public, including archived rock, mineral, fossil, and archeological collections. Due to space limitations, these tours will be limited to a small number of people. The teacher's workshop, a show and additional discussion in the museum's planetarium, will take place in the morning.

For the Friday afternoon conference, there will be presentations on the Precambrian to Ordovician metamorphic rocks of the Trenton Prong, Triassic sedimentary rocks, Jurassic igneous rocks, and Cretaceous Coastal Plain unconsolidated deposits and Pleistocene glacial outwash. Also to be discussed are recent archeological research on industrial development in Trenton, the use of geological deposits as building materials, and the influence of the local geology and geologic materials on the construction and use of the Delaware and Raritan Canal. Our invited keynote speaker is Dr. Karl Muessig of the New Jersey Geological Survey and New Jersey State Geologist; Dr. Muessig will discuss the 175 year history of the Survey. Following the presentations will be the annual dinner and business meeting with the election of GANJ officers for 2010-2011. This will be at a local favorite in the historic Mill Hill Section of Trenton, Joe's Mill Hill Saloon. See Page 4 for a complete list and schedule.

The Saturday field trip will start with a walking tour of the Petty's Run archeological research site, a location utilized for manufacturing from the early 1700s to the late 1800s, and Trenton's Old Barracks Museum and surrounding area to view the use of local geological materials in Trenton buildings. We will then board the buses to see outcrops of metamorphic rocks of the Trenton Prong, including Chickies Quartzite, amphibolites, schist, and gneiss; outcrops of the Lockatong Formation; an active diabase quarry; and a former clay pit in the Woodbury and Merchantville Formations. Each of these units was an active source of material for the development of Trenton and continue to impact development of the region.

Information on the meeting and field trip will also be available on the GANJ web site at [www.ganj.org](http://www.ganj.org). Please note that you may register for the meeting online at <http://shop.ganj.org>. Directions to the New Jersey State Museum and information on parking are on Page 3; a map showing parking is on Page 8. Information on accommodations in the area is on Page 2.

## **PROFESSIONAL DEVELOPMENT/CONTINUING EDUCATION CREDITS**

If attendance at the GANJ annual meeting is considered by your school, school district, or other organization as an acceptable professional development activity, GANJ will provide annual meeting certificates of attendance. Four (4) hours will be credited for the Friday presentations and six (6) for Saturday's field trip.

If you will need a certificate of attendance, note this with your registration form.

### **MEETING SPONSORSHIP**

GANJ invites support of the annual meeting through sponsorship (\$250.00). Sponsors receive recognition in the proceedings volume and on the GANJ web site for a year. More important is the opportunity to support geologic education in New Jersey. If interested, please contact a board member. Thank you again to our 2009-2010 sponsors:

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| Sadat Associates, Inc.                         | <a href="http://www.sadat.com">www.sadat.com</a>             |

### **ADVERTISEMENTS**

In order to help defray meeting and printing costs, GANJ is also accepting advertisements from geologically- oriented entities (e.g., universities, environmental consulting firms, environmental laboratories, well drilling firms, etc.). For \$15.00, a copy of your business card will be included in the annual meeting proceedings volume. If interested, please contact a board member.

### **REGISTER AND PURCHASE GUIDEBOOKS BY CREDIT CARD ONLINE**

In addition to registration, you may also purchase guidebooks from the GANJ web site. See <http://shop.ganj.org>. A list of currently available publications is on Page 9.

### **ACCOMMODATIONS**

Each conference attendee is responsible for their own hotel/motel. Due to the large number of facilities in the area, special arrangements/group discounts have not been established. Hotels in the area include:

#### New Jersey

1. Trenton Marriott Downtown, 1 West Lafayette Street, Trenton. 609-421-4000. Several blocks from the museum.
  2. Courtyard by Marriott, 360 Scotch Road, Ewing. 609-771-8100. Approx. 6 miles.
  3. Springhill Suites by Marriott, 1000 Charles Ewing Boulevard, Ewing. 609-530-0900. Approx. 7 miles.
  4. Red Roof Inn, 3203 Brunswick Pike (Route 1), Lawrenceville. 609-896-3388. Approx. 9 miles.
- There are numerous other hotels in the area, including along U.S. Route 1 north of Trenton in the Princeton area. See <http://nj.gov/counties/mercercer/visit/accomodation/>

#### Pennsylvania

1. Courtyard by Marriott, 5 Cabot Boulevard East, Langhorne. 215-945-7980. Approx. 7 miles.
2. Red Roof Inn, 3100 Cabot Boulevard West, Langhorne. 215-750-6200. Approx. 7 miles.
3. Sheraton Bucks County Hotel, 400 Oxford Valley Road, Langhorne. 215-547-4100. Approx. 7 miles.
4. Holiday Inn Express, 3101 West Cabot Boulevard, Langhorne. 215-757-4500. Approx 7 miles.

For other hotels in the area, see [http://visitbuckscounty.com/places\\_to\\_stay/landing.asp](http://visitbuckscounty.com/places_to_stay/landing.asp)

## **DIRECTIONS**

### **NEW JERSEY STATE MUSEUM – 205 WEST STATE STREET, TRENTON, NJ**

(directions are also available at <http://www.state.nj.us/state/museum/directions.htm>)

#### **FROM NORTHERN NEW JERSEY**

##### Using the NJ Turnpike

Take Exit 7A (Trenton, I-195 West). Proceed on I-195 West and follow the I-195/Route 29/Route 129 signs. Stay to the left and when the road divides go left onto Route 29 North, Capitol Complex/Lambertville. Stay on Route 29 North through the underpass/tunnel and continue to the Calhoun Street exit. Take the Calhoun Street exit and make the first right onto West State Street. The museum will be on the right.

##### Using U.S. Route 1 South

In Trenton, exit at Perry Street. At light, make a left onto Perry Street. Proceed several blocks (less than ½ mile) to Warren Street and make a left. Proceed a few blocks (less than ¼ mile) to West State Street. Turn right onto West State Street. The museum will be on the left in less than ½ mile.

#### **FROM EASTERN/CENTRAL NEW JERSEY**

Proceed on I-195 West. After crossing the NJ Turnpike, follow the Northern New Jersey/NJ Turnpike directions.

#### **FROM SOUTHERN NEW JERSEY**

##### Using the NJ Turnpike

Take Exit 7A (Trenton, I-195 West). Proceed on I-195 West and follow the Northern New Jersey/NJ Turnpike directions.

##### Using I-295 North

Follow I-295 North toward Trenton. Take Exit 60 for Route 29/Route 129/I-195-Trenton and follow the Northern New Jersey/NJ Turnpike directions.

#### **FROM PENNSYLVANIA**

##### Using I-95 North

After crossing the Delaware River, take Exit 1 (Trenton-Route 29 South). Proceed on Route 29 South to Calhoun Street in Trenton. Take the Calhoun Street exit and make the first right onto West State Street. The museum will be on the right.

##### Using Route 1 North

Take and Delaware River Toll Bridge (Note: No toll into New Jersey). Immediately after crossing the river, take the Route 29 exit and follow signs to Route 29 North-Lambertville. Stay on Route 29 North to the Calhoun Street exit. Take the Calhoun Street exit and make the first right onto West State Street. The museum will be on the right.

### **OLD BARRACKS MUSEUM – BARRACK STREET (NEAR THE INTERSECTION WITH LAFAYETTE STREET)**

The Old Barrack Museum is one (1) block east of the NJ State Museum. Take West State Street past the NJ State Capitol Building, turn right at first traffic light onto Barrack Street. The museum is on right.

#### **PARKING**

Free parking, including in the State House Garage behind the museum, will be limited, especially on Friday. The State House Garage is accessed from the rear entrance to the Capitol Complex, from Memorial Drive off Route 29. Picture identification will be required. A map of parking areas is on Page 8.

## THE GEOLOGY OF THE TRENTON AREA—ITS IMPACT ON THE HISTORY OF DEVELOPMENT & THE NEED FOR GEOLOGIC INVESTIGATION IN THE FUTURE

### Friday, October 8<sup>th</sup> – New Jersey State Museum Auditorium, Trenton, NJ

- 9:00-5:00 Registration
- 9:00-12:00 Self-guided tours of museum exhibits, including: Hi-Def Planetarium  
Fossil Mysteries  
Pretty Big Things: Stories of New Jersey History  
Self-guided tours of the Old Trenton Barracks Museum, including an exhibit on French and Indian War
- 10:00-11:00 Teacher Workshop – Planetarium presentation of Extreme Planets, live talk on New Jersey's October sky; and discussion of upcoming lunar eclipse of Dec. 21, 2010 – *Jay Schwartz, Planetarium Director*
- 11:00-12:00 Museum Tours - Tours of the inner workings of the museum, including archived rock, mineral, fossil, and archeological collections. 2 to 3 tours of about 20 minutes each. Limited to 15 people per tour - *David Parris, Curator, Natural History and Planetarium*
- 12:00-1:00 Lunch on your own. There is the Café NJ in the nearby Capitol building and many restaurants at the intersection of West State and South Warren Streets (approximately 10 minute walk).
- 1:00-1:20 Welcoming Remarks/Conference Overview – *Pierre Lacombe, US Geological Survey GANJ President*  
1:20-1:40 Metamorphic Geology of the Trenton Prong – *Richard Volkert, NJ Geological Survey*  
1:40-2:00 Archeological Excavation of Plate Metal, Steel Mill, and Pottery Kilns of Trenton – *Ian C. Burrow, Ph.D., Hunter Research, Inc.*
- 2:00-2:20 The Brownstone Quarrying Industry in New Jersey with notes on its Relation to Canals – *J. Mark Zdepski, JMZ Geology*  
2:20-2:40 Geology of Trenton and Brownfield Development – *J.R. Capasso, City of Trenton*  
2:40-3:00 Break  
3:00-3:20 Raritan Canal and Geology – *Richard W. Hunter, Ph.D., Hunter Research, Inc.*  
3:20-3:40 Lockatong Formation – *Pierre Lacombe, US Geological Survey*  
3:40-4:00 Arsenic in the Passaic Formation – *Zoltan Szabo, US Geological Survey*  
4:00-4:20 Pennington Trap Rock Quarry and Early Jurassic Diabase in New Jersey – *Greg Herman, Ph.D., NJ Geological Survey*  
4:20-4:40 Geology of Clay Deposits in the Coastal Plain – *Peter Sugarman, Ph.D., NJ Geological Survey*
- 5:00-6:00 Keynote Speaker – *Karl Muessig, Ph.D., State Geologist, NJ Geological Survey* – 175 Years of History and Achievements of the New Jersey Geological Survey
- 6:30 Dinner and Business Meeting – Joe's Mill Hill Saloon, Trenton, New Jersey

### Saturday, October 9<sup>th</sup> - Meet at the Old Barracks Museum (Barrack and Lafayette Sts.), Trenton, NJ

Field Trip: 8:00 am - 5:00 pm.

The field trip will start with a walking tour of the Petty's Run archeological site, the location of a steel furnace and plating, cotton, and paper mills between the early 1700s to late 1800s. We will also visit nearby buildings to see the use of local stone in construction, including the Old Barracks, part of the First Battle of Trenton in the Revolutionary War. We will then board buses to see outcrops of the metamorphic rocks of the Trenton Prong, including Chickies Quartzite at historic Graystones (the starting point for the land survey that defined the first of William Penn's land purchases from the native Americans in 1682) in Morrisville, PA; an outcrop of the Lockatong Formation by the historic Delaware and Raritan Canal and the Delaware River; an active diabase quarry near Pennington, NJ; and a former brick industry clay pit in the Woodbury and Merchantville Formations near Bordentown, NJ.

## 2010 GANJ ANNUAL MEETING AND 2010-2011 GANJ MEMBERSHIP

Register online at <http://shop.ganj.org> or complete and mail this form to the address listed below.

Online or mail registrations must be received by Oct. 1. After Oct. 1 you may register on-site the day of the meeting if space is available. No refunds after Oct. 1. **Register early: Field trip space is limited to 2 buses. No private vehicles.**

Last Name: \_\_\_\_\_ First Name: \_\_\_\_\_ Title: \_\_\_\_\_

Mailing Address: \_\_\_\_\_ e-mail: \_\_\_\_\_

\_\_\_\_\_ Affiliation: \_\_\_\_\_

**Note:** I wish to receive GANJ newsletters by email only  by mail only  by email and mail

### Registration Options:

**I will be attending the annual meeting of Friday** (includes 2011 membership, proceedings volume, and field trip)

Professional Registration:  \$55 (received by Oct. 1)  \$65 (after Oct. 1)

Student Registration\*:  \$25 (received by Oct. 1)  \$35 (after Oct. 1)

Additional GANJ XXVII Guidebooks (\$20 each) Quantity: \_\_\_\_\_ **SUBTOTAL: \$ \_\_\_\_\_**

I will be attending the field trip on Saturday\*.  I will not be attending the field trip on Saturday.

I am interested on the behind the scenes tour of the NJ State Museum.

*Friday Dinner and/or Saturday Field Trip Lunch (optional):*

- Friday Dinner and Saturday box lunch orders are due to the vendor by October 1. For meals, please ensure your registration is received by this date. There will be no opportunity to buy lunch on the trip, so make your lunch arrangements ahead of time, either through GANJ or by bringing your own.

Dinner, Friday \$25  omnivore  vegetarian

Box Lunch, Saturday \$10  ham  turkey  vegetarian

roast beef  tuna (all with drink and a snack)

**SUBTOTAL: \$ \_\_\_\_\_**

I request a CE certificate of attendance for 2010.  I request a CE certificate of attendance for 2009.

**I will not attend the meeting but I want to be a member:**

Membership only (10/08/2010 through the day before GANJ 2011)  Professional \$15  Student\* \$7.50

GANJ XXVII (2010) Field Guide and Proceedings Volume only - \$20 **SUBTOTAL: \$ \_\_\_\_\_**

(Check/money order payable to GANJ)

**GRANDTOTAL: \$ \_\_\_\_\_**

**\*Students (full or part-time) MUST submit a completed verification form (next page). All field trip participants MUST sign a release form (next page). If registering online, the form(s) may be mailed or brought to the meeting.** Register online or mail this form, the release form, student verification form (if applicable), and check or money order, payable to GANJ, to:

**Emma C. Rainforth, Ph.D., School of Theoretical and Applied Science, Ramapo College of New Jersey, 505 Ramapo Valley Road, Mahwah, NJ 07430, Attn: GANJ XXVII Annual Meeting.**

**THE GEOLOGICAL ASSOCIATION OF NEW JERSEY  
RELEASE AND HOLD HARMLESS WAIVER**

I, the undersigned, having been fully advised as to the nature and possible dangers of the conference and field trip, "The Geology of the Trenton Area – Its Impact on the History of Development and the Need for Geologic Investigations in the Future," on October 8 and 9, 2010, which is sponsored by THE GEOLOGICAL ASSOCIATION OF NEW JERSEY, do hereby assume any and all risks involved in connection with the trip, and do hereby save and hold harmless THE NEW JERSEY STATE MUSEUM; THE GEOLOGICAL ASSOCIATION OF NEW JERSEY, ITS OFFICERS, REPRESENTATIVES, AGENTS, OR MEMBERS; and the OWNERS of the properties and their AGENTS, from all claims, losses and damages (including attorney's fees and any costs involved because of said claim), on account of injury, death, property damage, inconvenience or loss of money due to delays that arise, by reason of my participation in the field trip. I understand that my use of alcohol or drugs would impair my judgment and coordination, and will hold the above stated organizations and individuals harmless from claims arising from the use of either. I understand that I am solely responsible for carrying my own life and health insurance. I grant THE GEOLOGICAL ASSOCIATION OF NEW JERSEY permission to use my image (photo) in their publications, web page, and other promotional materials.

**SIGNATURE:** \_\_\_\_\_

**PRINT NAME:** \_\_\_\_\_

**DATE:** \_\_\_\_\_

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**STUDENT VERIFICATION FORM**

The student registration rate is for full or part-time students at any level. The following form must be signed by an appropriate faculty, teacher, or administrator from the school you are attending.

This is to certify that: \_\_\_\_\_

Is a student at: \_\_\_\_\_

Certifier's Name: \_\_\_\_\_

Position: \_\_\_\_\_

Institution: \_\_\_\_\_

## **NOMINATIONS FOR THE GANJ 2010-2011 EXECUTIVE BOARD**

Nominees for the GANJ executive board were solicited from the GANJ membership in the Spring Newsletter. Nominees are all individuals who had been contacted by the person nominating them and had agreed to serve. The board presents the following list of candidates and will seek election of the entire slate by voice vote at the annual meeting. If anyone would like to make a nomination for future service, including a self-nomination, please contact any existing board member. Current board members can also answer questions regarding specific duties of the various positions. Please consider volunteering your time and energy to serve. We meet about once every two (2) months. Members are also invited to suggest ideas for future meeting themes, locations, and presenters.

The board would like to thank Dr. Deborah Freile, New Jersey City University, as she completes her three (3) year term as President.

### **PRESIDENT-ELECT: OPEN POSITION**

*Responsibilities: A three (3) year position (as President-Elect, President and Past-President) where during the first year one learns the responsibilities of the President, the second year is responsible for organizing the annual meeting and field trip, and the third year assists the President by sharing past experiences.*

### **TREASURER: EMMA RAINFORTH, RAMAPO COLLEGE OF NEW JERSEY**

*Responsibilities: A one (1) year position (with the understanding of serving multiple years) keeping track of the organization's finances.*

### **MEMBERSHIP SECRETARY: SUZANNE MACAOAY FERGUSON, SADAT ASSOCIATES, INC.**

*Responsibilities: A one (1) year position (with the understanding of serving multiple years) maintaining the membership database.*

### **RECORDING SECRETARY: STEPHEN J. URBANIK, NJ DEPT. OF ENVIRONMENTAL PROTECTION**

*Responsibilities: A one (1) year position recording minutes at the executive board and annual meetings, preparing the bi-annual newsletters, and tracking correspondence.*

### **COUNCILORS AT LARGE (THREE (3) POSITIONS):**

**ALEXANDER E. GATES, RUTGERS UNIVERSITY-NEWARK**

**WILLIAM MONTGOMERY, NEW JERSEY CITY UNIVERSITY**

**ALAN I. BENIMOFF, COLLEGE OF STATEN ISLAND/CUNY**

*Responsibilities: A one (1) year position assisting other members of the board as needed and learning the organization's operations in order to possibly serve in another position of the executive board.*

### **PUBLICATIONS COMMITTEE:**

**JANE ALEXANDER, COLLEGE OF STATEN ISLAND/CUNY**

**MATTHEW L. GORING, MONTCLAIR STATE UNIVERSITY**

**GREGORY HERMAN, NEW JERSEY GEOLOGICAL SURVEY**

### **CURRENTLY ELECTED OFFICERS:**

**PRESIDENT: ALAN H. UMINSKI, PARSONS**

**PAST-PRESIDENT: PIERRE LACOMBE, U.S. GEOLOGICAL SURVEY**



## **FIELD GUIDES & PROCEEDINGS OF PRIOR ANNUAL MEETINGS**

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Mail to: Geological Association of New Jersey  
P.O. Box 5145  
Trenton, NJ 08638-0145  
ATTN: Publications Order

\*out of print; available for download only

### **First Annual Meeting - 1984**

Puffer, John H., ed., 1984, *Igneous Rocks of the Newark Basin: Petrology, Mineralogy, and Ore Deposits, and Guide to Field Trip*.

### **Second Annual Meeting - 1985\***

Talkington, Raymond W., and Epstein, Claude M., eds., 1985, *Geological Investigations of the Coastal Plain of Southern New Jersey: Part 1 - Field Guide; Part 2A - Hydrology and Coastal Plain; Part 2B - Paleontologic Investigations (The set, Parts 1, 2A, 2B, priced as one volume)*.

### **Third Annual Meeting - 1986**

Husch, Jonathan, M., and Goldstein, Fredric R., eds., 1986, *Geology of the New Jersey Highlands and Radon in New Jersey*.

### **Fourth Annual Meeting - 1987\***

Gallagher, William B., ed., 1987, *Paleontology and Stratigraphy of the Lower Paleozoic Deposits of the Delaware Water Gap Area*.

### **Fifth Annual Meeting - 1988**

Husch, Jonathan, M., and Hozik, Michael J., eds., 1988, *Geology of the Central Newark Basin*.

### **Sixth Annual Meeting - 1989\***

Grossman, I. G., ed., 1989, *Paleozoic Geology of the Kittatinny Valley and Southwest Highlands N. J.*

### **Seventh Annual Meeting - 1990**

Brown, James O., and Kroll, Richard L., eds., 1990, *Aspects of Groundwater in New Jersey*.

### **Eighth Annual Meeting - 1991**

Crawford, Maria L., and Crawford, William A., eds., 1991, *Evolution and Assembly of the Pennsylvania - Delaware Piedmont*.

### **Ninth Annual Meeting - 1992**

Ashley, Gail M., and Halsey, Susan D., eds., 1992, *Environmental Geology of the Raritan River Basin*.

### **Tenth Annual Meeting - 1993**

Puffer, John H., ed., 1993, *Geologic Traverse Across the Precambrian Rocks of the New Jersey Highlands*.

### **Eleventh Annual Meeting - 1994**

Benimoff, Alan I., ed., 1994, *Geology of Staten Island, New York*.

### **Twelfth Annual Meeting - 1995**

Baker, John E. B., ed., 1995, *Contributions of the Paleontology of New Jersey*.

### **Thirteenth Annual Meeting - 1996**

Dalton, Richard F., and Brown, James O., eds., 1996, *Karst Geology of New Jersey and Vicinity*.

### **Fourteenth Annual Meeting - 1997**

Benimoff, Alan I., and Puffer, John H., 1997, *The Economic Geology of Northern New Jersey*.

### **Fifteenth Annual Meeting - 1998**

Puffer, John H., ed., 1998, *The Economic Geology of Central New Jersey*.

### **Sixteenth Annual Meeting - 1999**

Puffer, John H., ed., 1999, *New Jersey Beaches and Coastal Processes from a Geologic and Environmental Perspective*.

### **Seventeenth Annual Meeting - 2000**

Harper, David P. and, Goldstein, Fredric L., eds., 2000, *Glacial Geology of New Jersey*.

### **Eighteenth Annual Meeting - 2001**

Lacombe, Pierre, and Herman, Gregory, eds., 2001, *Geology in Service to Public Health*.

### **Nineteenth Annual Meeting - 2002**

D'Amato, Dana, ed., 2002, *Geology of the Delaware Water Gap Area*.

### **Twentieth Annual Meeting - 2003**

Hozik, Michael J., and Mihalasky, Mark J., eds., 2003, *Periglacial Features of Southern New Jersey*.

### **Twenty-first Annual Meeting - 2004**

Puffer, John H., and Volkert, Richard A., eds., 2004, *Neoproterozoic, Paleozoic, and Mesozoic Intrusive Rocks of Northern New Jersey and Southeastern New York*.

### **Twenty-second Annual Meeting - 2005**

Gates, Alexander E., ed., 2005, *Geology of the Central Newark Basin - The View From the 21<sup>st</sup> Century*.

### **Twenty-third Annual Meeting - 2006**

Macaoay, Suzanne, and Montgomery, William, ed., *Environmental Geology of the Highlands*.

### **Twenty-fourth Annual Meeting - 2007**

Rainforth, Emma C., ed., 2007, *Contributions to the Paleontology of New Jersey (II)*.

### **Twenty-fifth Annual Meeting - 2008**

Gorring, Matthew L., ed., 2008, *Environmental and Engineering Geology of Northeastern New Jersey*.

### **Twenty-sixth Annual Meeting - 2009**

Freile, Deborah, ed., 2009, *New Jersey Coastal Plain Stratigraphy and Coastal Processes*.

**Geological Association of New Jersey**  
**P.O. Box 5145**  
**Trenton, NJ 08638-0145**