Join Us for Our Annual Meeting

When: June 13, 2017  
Time: 5:30 pm  
Location: 119 The Plains Road, Middleburg, VA

Refreshments will be served.  
RSVP: info@goosecreek.org
Dear Members and Friends,

2016 was a very productive year for the Goose Creek Association. With an energetic Board, a dedicated office administrator, Holly Geary, and efficient office space in Middleburg, we have progressed on several fronts. Please join us on Tuesday, June 13, 5:30 pm, for our Annual Meeting to discuss two issues critical to our future: GCA’s Governance and Rural Agricultural Zoning in Loudoun and Fauquier Counties. We welcome your participation in this discussion. If you would like to attend, please register by calling our office at: 540-687-3073, or emailing us at: info@goosecreek.org.

On Governance we will discuss our term limits and board composition. On Rural Agricultural Zoning, we will discuss what this means, or should mean, in the face of increasing pressure for agri-tourism and rural business development. Lately, new commercial businesses with large-scale event centers have been popping up all over our counties, including protected historic and rural residential areas, under the auspices of “agri-tourism” and economic development. Are our zoning ordinances and ability to inspect and enforce zoning variances adequate? How do the counties balance the interests of owners with that of their neighbors and other residents?

This year, your GCA accomplished the following:

**Markham Truck Rest Area:** worked successfully with Markham residents and PEC to resist VDOT’s opening a truck rest area on I-66 near the Markham interchange;

**B-Chord Brewery:** monitored and successfully presented comments against development of a brewery on a rural road in Loudoun County;

**Catesby Events center:** monitored and presented comments against the development of an events center on a rural road in Loudoun County;

**Loudoun’s Comprehensive Plan:** Ongoing monitoring and comments;

**Stream Monitoring:** Reorganized and reinvigorated GCA’s decade long program to deliver relevant data to the VA Department of Environmental Quality on the health of the Goose Creek;
Enviro Documentary: Public presentation of “Saving Place, Saving Grace” about a local monastery’s efforts to implement conservation measures and Best Management Practices on their self-sustaining farm;

Goose Creek Challenge: Planted riparian buffers on local farms with scores of student and adult volunteers;

Blackthorne Inn: Ongoing monitoring and comments presented to Fauquier’s Planning Commission about a proposed events center, inn and dining complex near Upperville;

Spring Party: Celebrated Golden Goose Recipient, Patty Callahan, for her volunteerism and service to the Goose Creek Association at Magalen O. Bryant’s beautiful home, Locust Hill;

Goose Creek Clean Up: Saturday, June 3 cleanup with volunteers on the Goose Creek near the Goodstone Inn in conjunction with Clean the Bay Day.

Sincerely yours,

Lori and Bonnie
Mission

The Goose Creek Association protects and preserves the natural resources, open spaces, historic heritage and rural quality of life within the Goose Creek Watershed.
Two new Board Members joined GCA in 2016: Dulany Morison and Marvin Watts. They both bring various skills and experience to our Board. Dulany Morison will Chair the Goose Creek Challenge, as Marcia Woolman passes the torch. He will coordinate the planting and riparian buffer work along the Goose Creek.

Marvin Watts has proved valuable with his experience and coordination of our Goose Creek Cleanup and as a Loudoun County representative for the Goose Creek Association.

We will continue with our stream monitoring efforts. Program Chair, Jeff Millington has connected with a variety of watershed organizations to strengthen the program. In addition, he will continue to recruit new trainees and coordinate with local schools.

The Board will continue with environmental education, as well as monitor development in both Fauquier and Loudoun Counties.

### 2016 Financial Statement

**Income**

<table>
<thead>
<tr>
<th>Category</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unrestricted Memberships &amp; Donations</td>
<td>30,562.00</td>
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<tr>
<td>Restricted Donations</td>
<td>1,000.00</td>
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<tr>
<td>Foundations, Government &amp; Corporate Grants</td>
<td>3,000.00</td>
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<tr>
<td>Special Events</td>
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<td>Other Income</td>
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<td><strong>Total Income</strong></td>
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**Expenses**

<table>
<thead>
<tr>
<th>Category</th>
<th>Amount</th>
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<td>Programs</td>
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<td>Fundraising</td>
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<td>Special Events</td>
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<tr>
<td>Restricted Expenses</td>
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<tr>
<td><strong>Total Expenses</strong></td>
<td>30,380.62</td>
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### 2016 Annual Donor List

Thank you for all your generous support!

<table>
<thead>
<tr>
<th>Goose Creek Watershed Foundations, Government Grants and Corporate Donations</th>
<th>Board Members</th>
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<tr>
<td>Akre Capital Management—$700.00 Mr. &amp; Mrs. Charles T. Akre, Jr.</td>
<td>Lori Keenan McGuiness Co-Chair, Fauquier</td>
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<td>Archie &amp; Grace Berry Foundation Mrs. Susan Kohlhas - $5,000</td>
<td>Mona Botwick</td>
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<tr>
<td>Bainum Fund Mrs. Jane Bainum - $500</td>
<td>Louise Crane</td>
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<tr>
<td>Benjamin Rosenthal Foundation Mrs. Elaine Broadhead - $1,000</td>
<td>Bailey Davis</td>
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<td>Dun Foundation Ms. Nina Fout - $850.00</td>
<td>Julie Diehl</td>
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<td>Lazar Foundation - $2,500 Mr. &amp; Mrs. Michael Morency</td>
<td>Susan Grayson</td>
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<td>Leon Fund of the Community - $250.00 Mr. Alan Wurtzell</td>
<td>Jeff Millington</td>
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<tr>
<td>Luminescence Foundation Mr. Zohar Ben-Dov - $1,000</td>
<td>Dulaney Morison</td>
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<tr>
<td>Mangano Foundation Mr. &amp; Mrs. Frank Mangano - $500</td>
<td>Bob Shuey</td>
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<td>McGraw Foundation - $794.00 Mr. &amp; Mrs. Bradley and Bailey Davis</td>
<td>Marvin Watts</td>
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<td>Middleburg Orthopaedics Dr. &amp; Mrs. Andrew Bishop - $400</td>
<td>Marcia Woolman</td>
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<td>Piedmont Environmental Council - $250.00</td>
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<td>Tara Foundation - $2,150.00 Mr. &amp; Mrs. W. Carey Crane, III</td>
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<td>Tri-County Feeds, Etc. Mr. and Mrs. Bill Jackson - $3,163.00</td>
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<td>The Goodstone Inn - $250.00 Mr. &amp; Mrs. Mark Betts &amp; Family</td>
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<td>Quest Global Management - $475.00 Dr. Kent Allen and Dr. Rae Stone</td>
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<td>Little River $1,000+ Mr. &amp; Mrs. Michael Crane</td>
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<td>Mr. Mitch Diamond &amp; Ms. Lucy Bernstein Mr. &amp; Mrs. Timothy B. Harmon Ms. Bonnie Mattingly Mr. &amp; Mrs. Sean P. McGuinness Mr. &amp; Mrs. George L. Ohrstrom, II Mr. &amp; Mrs. Edward Stettinius</td>
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**Board Members**

- Lori Keenan McGuiness Co-Chair, Fauquier
- Bonnie Mattingly Co-Chair, Loudoun
- Paul Lawrence Treasurer

**Board Advisory Committee And Staff**

- Mona Botwick
- Louise Crane
- Bailey Davis
- Julie Diehl
- Susan Grayson
- Jeff Millington
- Dulaney Morison
- Bob Shuey
- Marvin Watts
- Marcia Woolman
Cromwell's Run $500-$999
Ms. Patricia Callahan
Mr. & Mrs. Thomas H. Delashmutt
Dr. Ellen Stefan & Mr. Timothy Dunn
Ms. Karla H. Evans MacMahon
Mrs. Jacqueline Badger Mars
Ms. Jean Perin
Dr. & Mrs. Jerold Principato
Mrs. Barbara Scott

Hungry Run $200-$499
Mr. & Mrs. Chris Ambrose
Mr. Albert Barber & Ms. Lynn Grinna
Mr. & Mrs. Robert Bonnie
Mr. & Mrs. Childs F. Burden
Mr. Paul D. Cronin
Mr. & Mrs. John Denegre
Mr. & Mrs. Robert E.L. deButts
Mr. & Mrs. Glen Epstein
Mr. & Mrs. William Ferster
Mr. Edward Gamble
Ms. April Gannon
Mrs. Tyson Gilpin
Mr. & Mrs. George Grayson
Mr. Hurst K. Groves
Mr. & Mrs. Paul Hasse
Mr. & Mrs. Dan Johnson
Mr. & Mrs. Henry Lavine
Mr. & Mrs. Paul Lawrence
Mr. & Mrs. Trowbridge Littleton
Mr & Mrs. Stephen McVeigh
Mr. & Mrs. C. Dulany Morison
Mr. & Mrs. Clarke Ohrstrom
Mr. & Mrs. John Richardson
Mr. Colvin G.. Ryan
Mr. Matthew Sheedy & Ms. Vicki Bendure
Mr. & Mrs. Bruce S. Smart
Mr. James K. Thompson
Mr. & Mrs. Rene Woolcot
Mr. & Mrs. Henry N. Woolman, III

Bolling Branch $100-$199
Mr. & Mr. Nicholas Atwood
Mr. & Mrs. Mark Augenblick
Mrs. Ames Braga
Mr. & Mrs. Josiah Bunting
Mr. & Mrs. John Coles
Mr. & Mrs. David Condon, III
Mr. & Mrs. C. Stanley Dees
Mrs. David De Give
Mr. & Mrs. John J. Donovan, Jr.
Mr. & Mrs. Robert S. Eliot
Mr. Joseph Embry
Ms. Mary Fleming Finlay
Mr. Todd Gambril & Mr. Tim Watkins
Ms. Leslie Grayson
Mr. & Mrs. Sydney Hall
Mr. & Mrs. Jack Helmly
Ms. Georgia H. Herbert
Mr. & Mrs. Stuart Himelfarb
Mr. & Mrs. Paul Hodge
Ms. Carol Holden
Mrs. Verne L. Hosta
Mr. & Mrs. Oliver C. Iselin, III
Col. & Mrs. Robert L. Kaplan
Mrs. Butter Strother

2016 Recipient of the Golden Goose Award
Patricia Callahan
(with Scott Kasprowicz)

Staff
Holly Geary

Advisory Committee
Pat Mcilvaine
Tom Turner
Jolly De Give
Howard Lewis
Meredith Whiting
Andrea Rosse

Mr. & Mrs. Howard Lewis
Mr. & Mrs. Gregg Looney
Mr. & Mrs. Lennart Lundh
Mr. & Mrs. Richard T. Jackson
Mr. & Mrs. William S. Janes
Mr. & Mrs. Charles Matheson
Mr. & Mrs. William H. McCormick
Mr. & Mrs. Michael McGettigan
Ms. Katherine McLeod
Mr. & Mrs. Jeff Millington
Mr. & Mrs. Michael Morency
Mrs. Robert W. Newton
Ms. Nicole Watson & Mr. Jason Paterniti
Mr. & Mrs. Christopher Ohrstrom
Ms. Elizabeth O’Quinn
Mr. Peter Piske & Mrs. Patricia Ewing
Mr. & Mrs. Bernardo Piskorz
Mr. Trevor Potter & Mr. Dana Westring
Mr. Milton Sender
Mrs. Sandra Shutler
Mr. & Mrs. Robert Shuey
Mr. & Mrs. Sidney J. Silver
Mrs. Butter Strother
Mr. & Mrs. George R. Thompson
Mr. & Mrs.Charles E. Trefzger
Mrs. Viviane Warren
Mr. & Mrs. Michael Watt
Mr. Marvin Watts
Mr. Maury Watts
Mr. & Mrs. John D. Whiting
While the amount of water on Earth is constant, “only 2.5 % of it is just available. Almost all of it is frozen or in the ground. Rivers, an ext
While the amount of water on Earth is constant, "only 2.5% of it is freshwater. Of that freshwater, only a tiny fraction is readily usable, an extremely important source of water for humans, contain barely 0.0002% of Earth's freshwater. So as the population explodes, human use of water expands, and pollution reduces the already limited amount available, the remaining volume of freshwater accessible to supply the demand grows smaller." Marilyn vos Savant.

The nymph is the dominant life history stage of the mayfly. Different insect species vary in their tolerance to water pollution, but in general, the larval stages of mayflies, stoneflies (Plecoptera) and caddis flies (Trichoptera) are susceptible to a number of pollutants including sewage, pesticides and industrial effluent. In general, mayflies are particularly sensitive to acidification, but tolerances vary, and certain species are exceptionally tolerant to heavy metal contamination and to low pH levels. Ephemerellidae are among the most tolerant groups and Siphlonuridae and Caenidae the least. The adverse effects on the insects of pollution may be either lethal or sub-lethal, in the latter case resulting in altered enzyme function, poor growth, changed behaviour or lack of reproductive success. As important parts of the food chain, pollution can cause knock-on effects to other organisms; a dearth of herbivorous nymphs can cause overgrowth of algae, and a scarcity of predatory nymphs can result in an over-abundance of their prey species. Fish that feed on mayfly nymphs that have bioaccumulated heavy metals are themselves at risk. Adult female mayflies find water by detecting the polarization of reflected light. They are easily fooled by other polished surfaces which can act as traps for swarming mayflies.

The status of many species of mayflies is unknown because they are known from only the original collection data. Four North American species are believed to be extinct. Among these, Pentagenia robusta was originally collected from the Ohio River near Cincinnati, but this species has not been seen since its original collection in the 1800s. Ephemera compar is known from a single specimen, collected from the "foothills of Colorado" in 1873, but despite intensive surveys of the Colorado mayflies reported in 1984, it has not been rediscovered.

The International Union for Conservation of Nature (IUCN) red list of threatened species includes one mayfly: Tasmanophlebi lacuscoerulei, the large blue lake mayfly, which is a native of Australia and is listed as endangered because its alpine habitat is vulnerable to climate change. Sourced from Wikipedia. Photos courtesy of Douglas Lees.