2019 Meeting of the Virginia, West Virginia and Virginia Tech Chapters of the American Fisheries Society

"The R3 Initiative"

Tuesday, February 19th - Thursday, February 21st, 2019

Hyatt Place Blacksburg / University
650 University City Blvd, Blacksburg, VA 24060

The Virginia, West Virginia and Virginia Tech Chapters thank the Sponsors for our 2019 meeting

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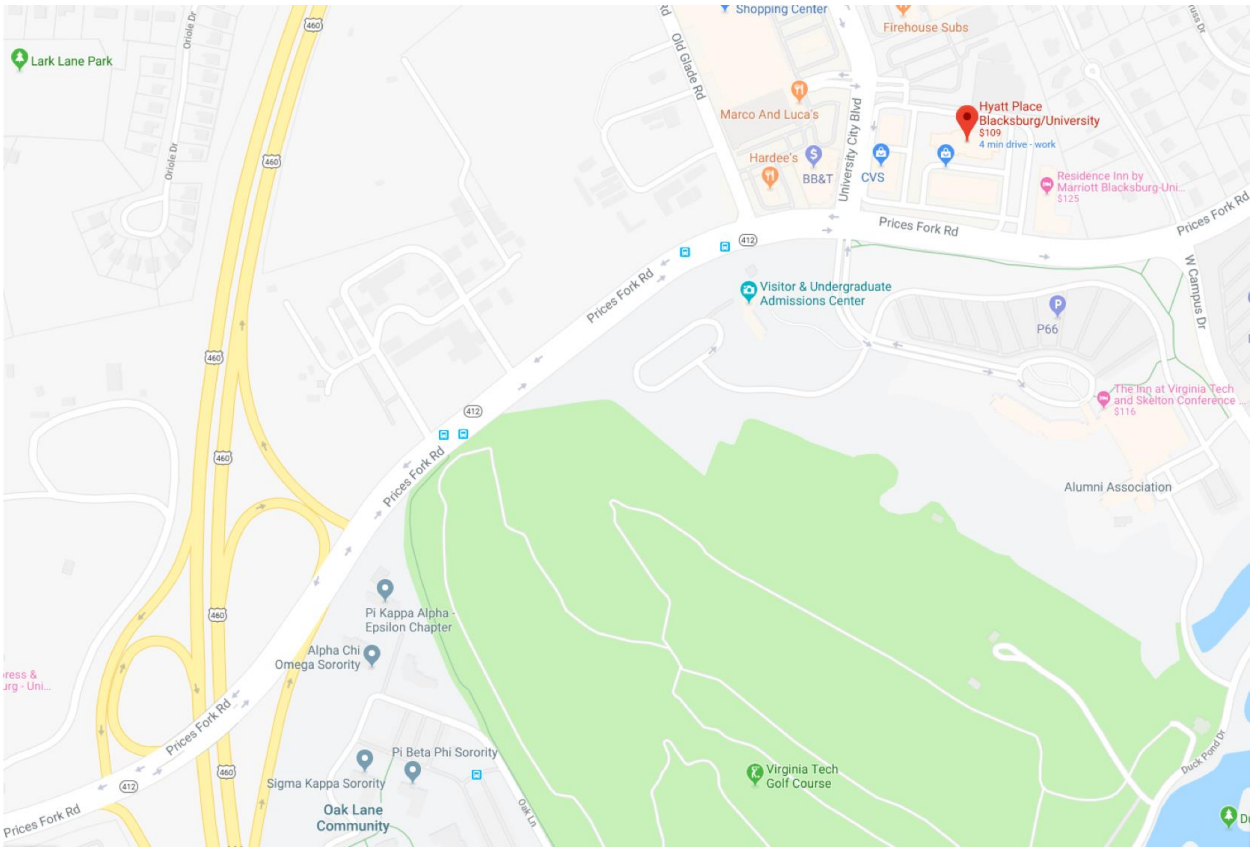
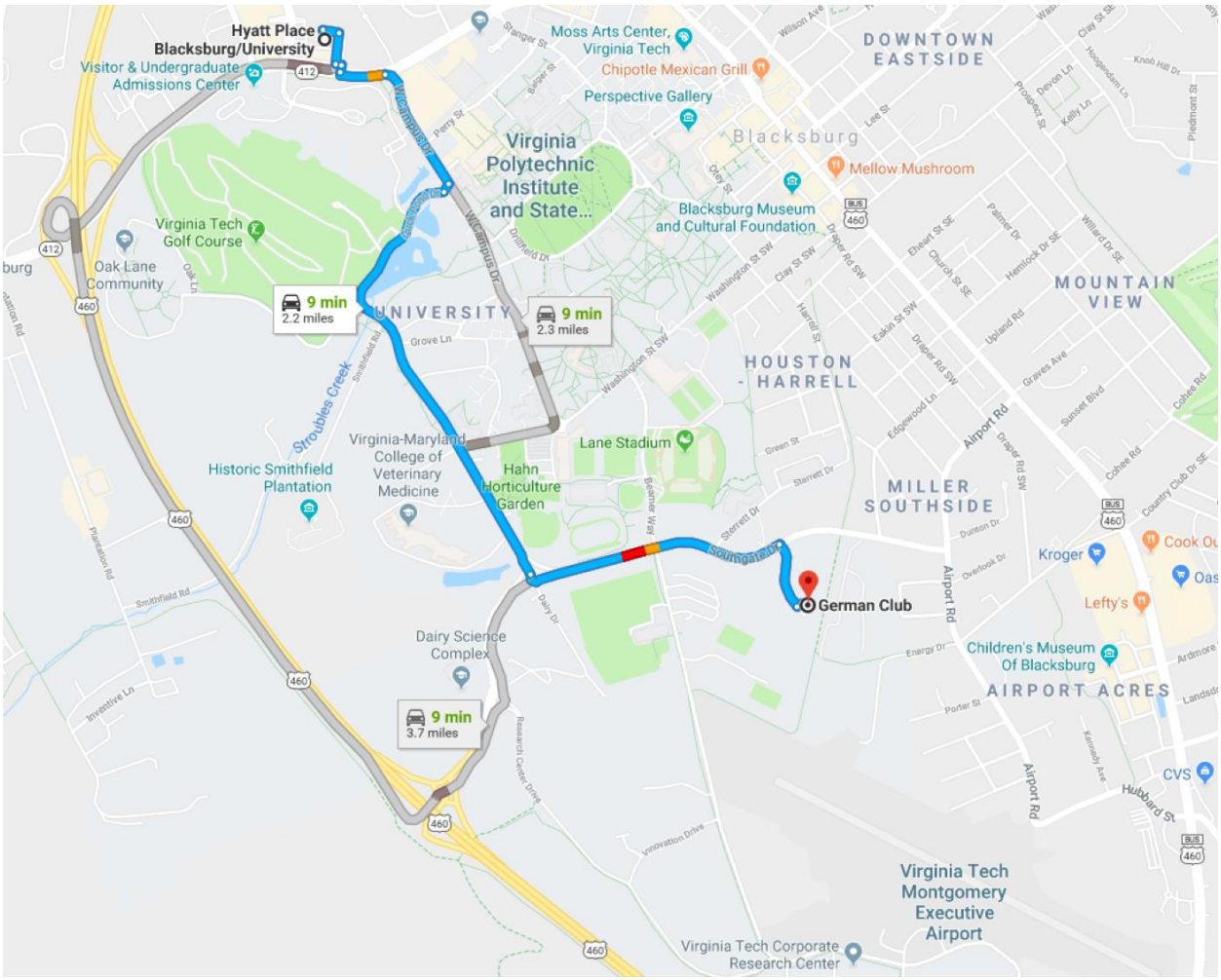
Robert Tuckwiller, Artist



Directions to Hyatt Place from US-460 W

- Follow US-460 W to VA-412 N/Prices Fork Rd in Blacksburg.
- Take the VA-412 N exit on to Prices Fork Road from US-460 W
- Continue on VA-412 N/Prices Fork Rd 0.7 miles
- Take left onto University City Blvd
- Take right at next stop light.

Address: 650 University City Blvd, Blacksburg, VA 24060



Directions from Hyatt Place to German Club

- Continue to Prices Fork Rd 1 min (0.1 mi)
- Take W Campus Dr to Duck Pond Dr 2 min (0.4 mi)
- Follow Duck Pond Dr to Southgate Dr in E-01 3 min (1.0 mi)
- At the traffic circle, take the 3rd exit onto Southgate Dr 2 min (0.5 mi)
- Drive to your destination 1 min (0.2 mi)

Address: 711 Southgate Dr, Blacksburg, VA 24060

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Program at a glance	
Tuesday 19th February	
12:00 PM	Registration for Joint AFS Meeting
1:00 PM – 5:00 PM	R3 Initiative Presentations and Discussion
6:30 PM – 10:00 PM	Informal Social – German Club
Wednesday 20th February	
7:45 AM	Registration for Joint AFS Meeting
8:00 AM – 8:05 AM	Opening Remarks
8:05 AM – 9:50 AM	Contributed Papers
9:50 AM – 10:05 AM	BREAK
10:05 AM – 11:55 AM	Contributed Papers
11:55 AM – 1:20 PM	LUNCH
1:20 PM – 2:45 PM	Contributed Papers
2:45 PM – 3:00 PM	BREAK
3:00 PM – 3:40 PM	Contributed Papers
3:40 PM – 4:00 PM	BREAK
4:00 PM – 5:00 PM	Chapter Business Meetings
6:00 PM – 7:00 PM	Poster Session and Social – German Club
6:00 PM – 10:00 PM	Dinner and Raffle – German Club
Thursday 21st February	
8:30 AM – 10:10 AM	Contributed Papers
10:10 AM – 10:30 AM	BREAK
10:30 AM – 11:55 AM	Contributed Papers
11:55 AM – 12:30 PM	Closing Remarks / Awards

Program Committee: Brad Fink (VA Chair), Aaron Bunch, Scott Smith, Brandon Keplinger and Alan Temple.

Tuesday, February 19th

Registration Opens at 12:00

TIME	Hyatt Place Blacksburg - Ballroom
	Moderator: Dr. Don Orth
1:00-5:00 p.m.	**R3 Initiative Presentations and Discussion**
1:00-2:00 p.m.	Title: Fishing for Ideas - Is the North American Model Still Relevant in Today's World? *Presenter: John Arway – Pennsylvania Fish and Boat Commission - Ret. Executive Director*
2:00-3:00 p.m.	Title: Marketing and R3 in West Virginia *Presenter: Kayla Donathan - WVDNR - Public Information Specialist*
3:00-4:00 p.m.	Title: Developing and Implementing an Agency-wide R3 Plan *Presenter: Ed Herndon - VDGIF - Recruitment, Retention and Reactivation (R3) Coordinator*
4:00-5:00 p.m.	Question and Answer Session / Panel Discussion *John Arway, Kayla Donathan, Ed Herndon)*

TIME	German Club
6:30-10:00 p.m.	**Social – Pizza and Salad** ***Cohosted by the Virginia Tech Alumni Association***

Virginia Tech
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Wednesday, February 20th

Registration Opens at 7:45 A.M.

TIME	Hyatt Place Blacksburg - Ballroom
8:00-8:05 a.m.	Opening Remarks *Johnathan Harris, VA Chapter President*
	Moderator: Alan Temple
8:05-8:20 a.m.	Largemouth Bass Population Response to a Protected Slot Limit Regulation in a Small Impoundment *B. Keplinger - WVDNR*
8:20-8:35 a.m.	Assessment of Small Impoundment Bluegill Populations in Northern West Virginia *D. M. Smith - WVDNR*
8:35-8:50 a.m.	Efforts to Enhance Channel Catfish Natural Recruitment in Virginia Small Impoundments *J. Lam - Blue Ridge Community College, 2018 VCAFS Junior Fish Biologist - Student*
8:50-9:05 a.m.	Evaluation of Sampling Gears and Population Characteristics of Catfish in the Monongahela River, WV *K. L. Chestnut - WVU - Student*
9:05-9:20 a.m.	Examining Multi-scale Effects of Land Use on Fish Abundance within the New River Basin L. G. Sleezer - VT - Student
9:20-9:35 a.m.	A simulation study to evaluate the influence of sub-sampling bin sizes on growth parameter estimation *C. Hilling - VT - Student*
9:35-9:50 a.m.	Protective Slot Limit, Changing Angler Behavior, and Increased Survival Has Unintentional Consequences for Striped Bass Fishery *D. Wilson - VDGIF*
9:50-10:05 a.m.	**BREAK**
	Moderator: Kirk Smith
10:05-10:20 a.m.	Examining mutualistic interactions between nest-building stream fish and Clinch dace using two modeling approaches *B. C. Kline - PSU - Student*
10:20-10:35 a.m.	The federally endangered Candy Darter (Etheostoma osburni): how did it happen and can we prevent population extirpation or species extinction? *D. Cincotta - WVDNR*

TIME	Hyatt Place Blacksburg - Ballroom
10:35-10:50 a.m.	Population genetic structure of the endangered Candy Darter in West Virginia and implications for management *B. E. Kessinger – WVU Student*
10:50-11:05 a.m.	Variation in detectability among riffle-dwelling fishes in two Virginia streams *K. E. McBaine - VT - Student*
11:05-11:20 a.m.	Assessing Brook Trout (Salvelinus fontinalis) Populations Above and Below Waterfalls in Virginia *H. Eisemann - JMU - Student*
11:20-11:30 a.m.	Using sex ratios of Brook Trout to identify population resilience and spawning adult size structure *B. A. Wager - WVU - (Lightning) Student*
11:30-11:40	*Why are there no big Brook Trout in headwater streams?* *K. J. Hartman - WVU – (Lightning)*
11:40-11:55	Stream Restoration and Monitoring Efforts and the Introduction of Brook Trout (Salvelinus fontinalis) Into Catharpin Creek, a Small Spring-fed Stream in Bull Run Mountains Natural Area Preserve Located 35 Miles Outside of Washington, DC *R. M. Geiger - West Springfield High School - Student*
11:55-1:20 p.m.	**LUNCH – On Your Own**
	Moderator: Steve Reeser
1:20-1:35 p.m.	Lake Fertilization and Nutrient Budgets: Lake Management versus Chesapeake Bay Total Maximum Daily Load (TMDL) Reduction *L. Bondurant - JMU - Student*
1:35-1:45 p.m.	Mucking Around with Aquatic Plants in Claytor Lake: What have we Learned? *J. R. Copeland - DGIF (Lightning)*
1:45-2:00 p.m.	Population Genetic Analysis of Striped Bass in the Roanoke River Basin *S. C. Harris - VT - Student*
2:00-2:15 p.m.	Effects of spatial autocorrelation on the diet composition analysis: an example based on a migratory species along Eastern Coast of China *M. Li - VT - Student*
2:15-2:30 p.m.	Evaluating drivers of Brook Trout stock/recruitment relationships in West Virginia headwater streams *C. W. Schwinghamer - WVU - Student*
2:30-2:45	Trout Angler Use and Trends at the Clinch Mountain Fee Area *S. Owens - VDGIF*

TIME	Hyatt Place Blacksburg - Ballroom
2:45-3:00 p.m.	**BREAK**
	Moderator: Dan Wilson
3:00-3:15 p.m.	The TIA Alliance: Students and Conservation Organizations Working Together for the Integrity of Our Aquatic Ecosystems *M. Waclawski - James Madison High School – Student* *Dr. B. Murphy - VT*
3:15-3:30 p.m.	Investigations into the life-history and genetic diversity of the Tennessee heelsplitter (Lasmigona holstonia) *A. M. Ganser - VT - Student*
3:30-3:40 p.m.	Blue Catfish and Flathead Catfish Population Characteristics and Movement in Ohio and Lower Kanawha River, West Virginia *J. V. Siegel – WVU – Student (Lightning)*
3:40-4:00 p.m.	**BREAK**
4:00-5:00 p.m.	Chapter Business Meetings – Hyatt Place Ballroom

Breaks Provided by the Virginia Tech Department of Fish and Wildlife Conservation

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TIME	German Club
6:00-7:00 p.m.	**Poster Session – Maddie Johnson (VT Chapter) – John Copeland**
	VDGIF Northern Snakehead Citizen Science App. *B. P. Donovan - VDGIF*
	Identification of larval darters of the upper Roanoke River drainage *J. Buckwalter - VT*
	Modeling the Predation Dynamics of Invasive Blue Catfish Ictalurus furcatus in the Chesapeake Bay Tributaries and Subestuaries *Dr. D. Orth - VT*
	Using fishers' knowledge of catch rates to conserve Brazilian fisheries *L. Castello - VT*
	Bluegill (Lepomis macrochirus) exhibit distinct morphology, but not gonad mass, in reservoirs versus streams *A. Hajjami and Thomas Bustamante*
	Bluegill Habitat Use in the Upper Mississippi River *E. Rutledge - WVU - Student*
	Urban Stream Restoration: Material Processing and Conveyance Channels *M. Berg - JMU - Student*
	Pitt Springs Run: A Tale of Two Water Chemistries *E. Hutchinson and C. Guo - JMU - Student*
	Lake Keokee: Physical – Chemical Parameters, Fish Populations and Management Issues *M. Roberts - JMU - Student*
	Can you see the rainbow: Assessing the genetic diversity of a common and ubiquitous freshwater mussel species, Villosa iris *K. Ortiz - VT - Student*
	Fragmentation and Genetic Diversity in Clinch Dace Chrosomus sp. cf. saylori *R. Bourquin - VT - Student*
	Patterns of larval darter catch in the upper Roanoke River drainage *H. Greenway and G. Martin - VT - Student*
	Habitata Utilization and Impact of Flooding on the James Spiny Mussel (Parvaspina Collina) Populations in Virginia Streams *Christine A. Verdream - JMU - Student*
	Smallmouth Bass Habitat Use in the Upper Mississippi River C. G. Gainer - WVU - Student
	Ichthyochory in omnivorous fishes of the Amazonian floodplain *S. Alascio - W&L University - Student*
6:00-10:00 p.m.	Dinner & Raffle – German Club

Thursday, February 21st

TIME	Hyatt Place Blacksburg - Ballroom
	Moderator: Jason Hallacher
8:30-8:45 a.m.	Springtime Exploitation of Brook Trout by Anglers in Remote Headwater Streams of Central Appalachia *K. Hartman - WVU*
8:45-9:00 a.m.	Long Term Variability in Brook Trout (Salvelinus fontinalis) Populations and Climate across a Large Spatial Extent in the Central Appalachian Mountains *R. G. Andrew - WVU*
9:00-9:15 a.m.	Understanding Virginia Anglers' & Other Wildlife Recreationists' Conservation Behaviors & Perspectives about the State Agency *B. P. Grooms - VT - Student*
9:15-9:30 a.m.	*Population genetics of Brook Trout (Salvelinus fontinalis) in the southern Appalachian Mountains* *E. Hallerman - VT*
9:30-9:45 a.m.	Variable Exploitation of Walleye and Saugeye in John W. Flannagan Reservoir *J. Williams - VDGIF*
9:45-9:55 a.m.	Egg Size Variation Among Walleye in Virginia *C. B. Hopkins – VT (Lightning)*
9:55-10:10 a.m.	Exploring Pathways of Atlantic Sturgeon DNA in Diets from a Tidal River Fish Assemblage using NextGeneration Sequencing *A. Bunch - VDGIF*
10:10-10:30 a.m.	**BREAK**
	Moderator: Aaron Bunch
10:30-10:40 a.m.	*Comparative Analysis of Two Genetic Markers Used Separately and in Conjunction for DNA Metabarcoding Diet Studies* *F. Hoogakker – VDGIF (Lightning)*
10:40-10:50 a.m.	Competition and Predation: Interactions between American eels (Anguilla rostrata) and brook trout (Salvelinus fontinalis) in Virginia mountains streams J. Studio - Environmental Solutions and Innovations, Inc *(Lightning)*
10:50-11:00 a.m.	Virtual reality meets fish biology: introducing Project eTrout *T. Hitt - USGS Leetown Science Center (Lightning)*
11:00-11:15 a.m.	A Fisheries Management Perspective: Public Versus Private Sector Approaches *V. DiCenzo - Solitude Lake Management*

TIME	Hyatt Place Blacksburg - Ballroom
11:15-11:25 a.m.	Restoration of Beneficial Native Vegetation in the Presence of Herbivores *Tyler Meighan - Solitude Lake Management (Lightning)*
11:25-11:40 a.m.	*Lighting Up the Black Box: Discovery of Novel Viruses that Infect Fish Using Massively Parallel Sequencing Approaches* *L. R. Iwanowicz - U.S. Geological Survey, Leetown Science Center, Fish Health Branch*
11:40-11:55 a.m.	A Tale of Two New Catfishes from Oz *S. A. Welch - USGS*
11:55-12:00 p.m.	Closing Remarks *Brad Fink, VA Chapter President*