





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













John Kauffman, LLC, Crozet, Virginia

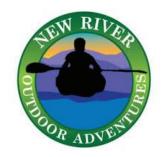


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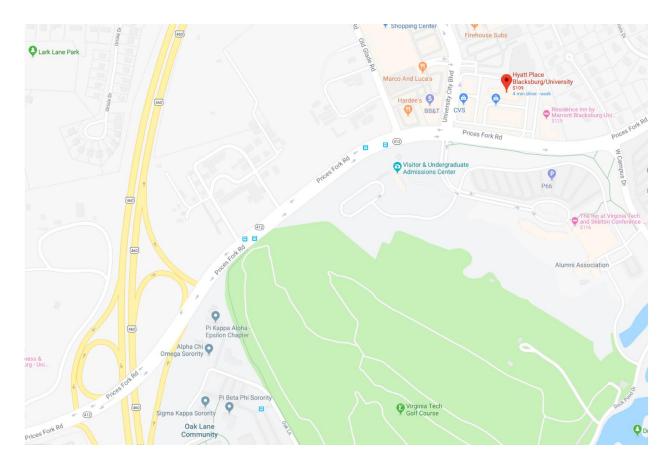






Robert Tuckwiller, Artist

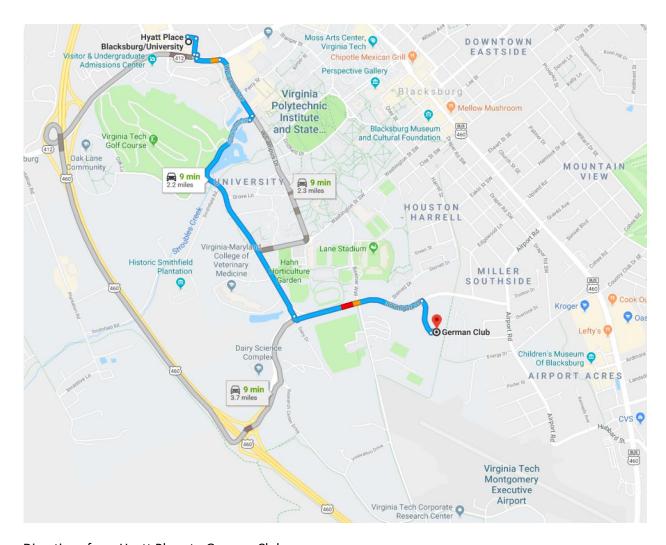




Directions to Hyatt Place from US-460 W

- 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 19 th 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 20 th 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 21 st 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

<u>Program Committee</u>: 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 Alumni Association

VirginiaTech*forlife*

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
0.00 0.20 0.111.	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.	C. Hilling - VT - Student Protective Slot Limit, Changing Angler Behavior, and Increased Survival
3.33-3.30 a.m.	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
3.20 . 3.00 4.711	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
10.55-10.50 a.iii.	Virginia and implications for management
	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
11120 11100 411111	spawning adult size structure
	B. A. Wager - WVU - (Lightning) Student
11:30-11:40	Why are there no big Brook Trout in headwater streams?
44 40 44 55	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
	Cutoide of Washington, DO
	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
	I Donaly want IMII Chydant
1:35-1:45 p.m.	L. Bondurant - JMU - Student Mucking Around with Aquatic Plants in Claytor Lake: What have we
1.33-1.43 p.III.	Learned?
	Learneu:
	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
2.13-2.30 μ.III.	Virginia headwater streams
	Thigh had field the constants
	C. W. Schwinghamer - WVU - Student

TIME	Hyatt Place Blacksburg - Ballroom
2:30-2:45	Understanding Virginia Anglers' & Other Wildlife Recreationists'
	Conservation Behaviors & Perspectives about the State Agency
	B. P. Grooms - VT - Student
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
0.45 0.00 m m	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



TIME	German Club
6:00-7:00 p.m.	Poster Session – Maddie Johnson (VT Chapter) – John Copeland
C.CC	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
0.45.0.00	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.	Trout Angler Use and Trends at the Clinch Mountain Fee Area S. Owens - VDGIF
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
9.50-9.45 a.m.	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
10:10 10:20 a m	A. Bunch - VDGIF BREAK
10:10-10:30 a.m.	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
11.00 11.15	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