IMPORTANT CHANGES FOR REGISTRATION PLEASE READ!!

Due to the growing number of Workshop attendees and the high demand for training, we have created additional restrictions with regards to registration for Monday and Friday courses. These are in place so that all NMFWA attendees may have an opportunity to get into one of the training courses. **So please be considerate to others; pick a day for training (Monday or Friday) and commit.**

**SPACE IS LIMITED for several courses in order to provide quality training.** All training courses require pre-registration at the time of the Workshop Registration. Course capacity is listed for each class and will be available until filled, so we encourage those interested to register early!

**What courses can I register for?**

- Each registrant may select ONLY ONE training day to attend (Monday or Friday).
- This does NOT apply to the Field Trips ONLY Training Courses.
- Climate Change Adaptations Courses offered on Monday and Friday are the same courses we have offered in previous years and have limited capacity. Please do not sign up if you have already taken this course in the past.
- Wait lists will not be open until all courses are filled for that day. Wait list capacity will then be capped to 20 people per course. If you are on a wait list and a seat becomes available for that course, you will be contacted directly by NMFWA via the email address you provided at the time of registration.

**TRAINING COURSE DESCRIPTIONS**

**Monday, March 9, 2019**

**Full-Day Courses - 0800-1700**


Department of Defense (DoD), through the Legacy Program, funded participation in the Avian Knowledge Network (AKN) along with other federal partners to create the Federal Avian Data Center (FADC). This data center integrates data from similar standardized protocols and data structures for use in analysis, summarization, and visualization. Users have access to sharing roles that include data entry, data management, and data analysis, providing the only national / international enterprise system of its type for scientific observation protocols, analyzable results, long-term storage, and widespread input. Attendees will learn about how the system is organized, how to create project metadata and input data, how data sharing levels work, how to visualize, analyze, and aggregate data for conservation purposes. They will also learn about capability of pooling Service-specific data, regional data, and habitat-specific data including data from our federal partners. Participants will learn the who, what, where, when, why, and how of the FADC and DoD. They will leave with the capability to upload, archive, access, and use extensive avian data tools to assist in NEPA analysis and assessing
impacts of readiness and non-readiness activities. Instructors include engineers and biologists from Point Blue Conservation Science, Klamath Bird Observatory, and ERDC-EL.

NOTE: Pre-work is required to participate in this course! Any interested participants need to commit to completing the pre-work prior to the in-person training in Omaha. Participants must bring an appropriate and ready avian dataset and participate in a pre-course webinar to confirm ready datasets and gain access to the FADC. Participants must bring a laptop that can access the Internet to the training in Omaha. Registrants will be contacted by course instructors via email with more information closer to the Workshop.

2. **Climate Adaptation for DoD Natural Resource Managers.** (Course Capacity -36 registrants). This course was provided in 2019. Please do not sign up if you have already taken this course in the past.

Climate Adaptation for DoD Natural Resource Managers. (Course Capacity -36 registrants). This course was provided in 2019. Please do not sign up if you have already taken this course in the past. This full-day workshop will introduce participants to climate adaptation planning in the context of installation natural resource management and INRMPs. The course is based on the new DoD guide, “Climate Adaptation for DoD Natural Resource Managers,” which was released by the Pentagon in June 2019. The guide offers a six-step INRMP adaptation planning process that allows managers to understand climate-related vulnerabilities and risks to their installation’s natural resources, and to identify adaptation strategies capable of reducing those risks and sustain installation mission and military readiness. This training will introduce participants to the principles of effective adaptation and offer a summary of how climatic shifts may affect the various INRMP program elements. Through hands-on team exercises and worksheets, the training will provide step-by-step instructions to the INRMP adaptation planning process. The guide and course were funded by DoD Legacy Resource Management Program and developed by National Wildlife Federation and Naval Information Warfare Center in collaboration with OSD and the Military Services.

Half-Day Courses – 0800-1200


This training session provides insight into the use of unmanned aerial Vehicles (UAVs) for natural resource management on DoD lands. Topics include a review of current DoD use policies, approval processes, training requirements, and example resource management applications. The course will provide participants with an understanding of both the challenges and potential benefits of unmanned aerial vehicles for natural resource management on DoD lands. This course is offered by instructors from the U.S. Army Dugway Proving Ground, Select Engineering Services, and Man Tech International Corporation.

4. **Advanced Endangered Species Act (ESA) Topics – AM Session.** (Course Capacity-40 registrants)

This workshop on conservation strategies including conservation banking is ideal for those who have been introduced to off-site mitigation and are interested in learning more about how species off site conservation areas are established and operated. Instructors will focus on how to create regulatory efficiencies by integrating conservation strategies into the Section 7 consultation process, highlight the roles and responsibilities of the various parties involved with developing and managing off site conservation areas, and provide some examples
of where these strategies have been used by the military. This course is offered by the US Fish and Wildlife Service instructors in cooperation with the NMFWA Training Committee.

**Half-Day Courses – 1300-1700**


This training session provides insight into the use of unmanned aerial Vehicles (UAVs) for natural resource management on DoD lands. Topics include a review of current DoD use policies, approval processes, training requirements, and example resource management applications. The course will provide participants with an understanding of both the challenges and potential benefits of unmanned aerial vehicles for natural resource management on DoD lands. This course is offered by instructors from the U.S. Army Dugway Proving Ground, Select Engineering Services, and Man Tech International Corporation.

6. **Advanced Endangered Species Act (ESA) Topics – PM Session.** (Course Capacity-40 registrants)

This workshop on conservation strategies including conservation banking is ideal for those who have been introduced to off-site mitigation and are interested in learning more about how species off site conservation areas are established and operated. Instructors will focus on how to create regulatory efficiencies by integrating conservation strategies into the Section 7 consultation process, highlight the roles and responsibilities of the various parties involved with developing and managing off site conservation areas, and provide some examples of where these strategies have been used by the military. This course is offered by the US Fish and Wildlife Service instructors in cooperation with the NMFWA Training Committee.

7. **Innovations in Invasive Species Management.** (Course Capacity – 100 registrants)

The field of invasive species management is rapidly evolving with constant influx of new tools, challenges, early detection and rapid response (EDRR) efforts and management approaches. This half-day interactive course will focus on invasive species, presenting new technologies and innovations being utilized in the invasive species management arena. Some installation specific examples will be discussed. Utilizing a presentation format this session will include interactive talks about invasive species mapping and tracking tools, invasive species control methods and examples of reestablishment of native species. Invasive species can and do impact military operations (e.g. wildfire frequency / intensity, cargo inspections, etc) and are commonly key factors influencing endangered species listing and recovery programs. If your installation or organization is currently working on, or have plans to work on invasive species management projects in the future that you think would be of interest to course attendees and invasive species working group members, please email the instructor, Steven Manning at steve@ipc.us.com to discuss your ideas.

8. **The Migratory Bird Treaty Act: Recent changes and interpretation.** (Course Capacity – 100 registrants)

This half-day interactive workshop will use a scenario-based format to provide an overview of migratory bird-related requirements, including the Migratory Bird Treaty Act, Migratory Bird “Readiness” Rule, and Executive Order 13186 and the associated Memorandum of Understanding. It will cover recent changes in interpretation of the MBTA; explain how, when, and where regulations apply; implications for enabling mission; and the importance of communication and collaboration across pillars at the installation level. This course will present and discuss a wide variety of real and simulated migratory bird scenarios on DoD lands, and describe differences
in regulations and guidance between USFWS and DoD. Attendees are encouraged to bring their own migratory bird scenarios from installations such that we can discuss and provide insight on how to address in a mission-support framework. This course will be offered by instructors from DoD Partners in Flight and U.S. Fish and Wildlife Service.

Friday, March 13, 2019

Full-Day Course - 0800-1700

9. **Project-level Climate Change Adaptation Planning for Natural Resource Managers** (Course Capacity- 30 registrants). This course was provided in 2018 & 2019. Please do not sign up if you have already taken this course in the past.

This full-day workshop will focus on incorporating climate change considerations into common natural resources projects such as wildlife habitat improvement, vegetation restoration, stream management, and erosion control. This project-level planning identifies practical, on-the-ground management actions that can help natural systems and infrastructure cope with change, tiering to overarching goals at the installation-level. This process follows an abbreviated format of the Adaptation Workbook used by the Northern Institute of Applied Climate Science (NIACS) on hundreds of natural resources projects. Participants will work in groups to identify climate adaptation actions for real-world management projects. At the end of the course participants will be able to; 1) identify climate change-related challenges and opportunities for their sample resource management project and in their own management, 2) develop actionable steps to adapt ecosystems to changing conditions and 3) communicate how their actions address climate risks and help to meet management goals and support the military mission. This workshop is offered by Chris Stone, Kristen Schmitt, and Todd Ontl of NIACS.

**Note: Pre-workshop reading is required!** Registrants will be contacted by course instructors via email with more information closer to the Workshop.

Field Trip – 0800-1400

Camp Ashland Training Site, Nebraska Army National Guard (Field Trip Capacity – 45 registrants). Buses load 0800 outside the Hotel and will return by 1400. Please bring a lunch and dress appropriately for walking around outside.

This field trip will tour areas at the Nebraska Army National Guard's Camp Ashland Training Site that were affected by catastrophic flooding in March 2019. This field trip will look at impacts to Section 7 conservation measure projects, training land lost/damaged, levee breaches, damage to historical buildings, land scouring, repair and monitoring efforts that have occurred or ongoing. There will also be an open discussion on how the Nebraska Army National Guard has dealt with regulators and public concerns with the reoccupation and cleanup effort due to this flood event.