Advanced MARK Workshop
August 4-8, 2013
CSU - Ft. Collins, CO

Description: This workshop should not be confused with a beginner or intermediate MARK workshop. Knowledge of, and experience in using, Program MARK is assumed. Attendees should have previous MARK experience through a class or workshop. Attendees should have mastery of the topics in Chapters 1-7 of "Program MARK – a Gentle Introduction" as well as familiarity with numerous mark-recapture models. Attendees should use Program MARK regularly. This workshop will focus on topics and models that are not well covered in beginner and intermediate workshops and/or that are not well documented in terms of application. Below is a tentative schedule with topics and presenters.

		Topic(s)	Presenter(s)
Sun (4 Aug)	Morning – 18:30	Travel to Ft. Collins	
	18:30-20:30	Avogadro's Number 605 S Mason St Fort Collins, CO 80524 (970) 493-5555	
		Topic(s)	**Presenter(s)**
Mon (5 Aug)	8:00	Rockwell Hall West, Room 209 Map: http://maps.colostate.edu/default.aspx?tag=4	
	8:00-10:00 10:20-12:15	Advanced Occupancy Modeling	Larissa Bailey
	13:30-15:30 15:50-17:00	Advanced Multi-State Models and Extensions	Bill Kendall
Tue (6 Aug)	8:00-10:00 10:20-12:00	Mark-resight Models and Sigma	Brett McClintock and Gary White
	13:30-15:30 15:50-17:00	Open Model stuff (POPAN, Pradel, OPEN Multistate)	Gary White and Bill Kendall
Wed (7 Aug)	8:00-10:30	Individual Bootstrap and Data Cloning; Correcting Closed Models with Telemetry Data	Gary White and Jake Ivan
	10:45-12:15	Variance Components	Evan Cooch and Ken Burnham
	13:30-15:30	MCMC	Evan Cooch and Ken Burnham
	15:50-16:30	Broader discussion on incorporating Heterogeneity into other models, covariates, (Mixture in closed, CJS, Pradel, Recovery; Ind. Random effects in mark-resight, CJS, Pradel, Burnham live-dead, Recovery)	Gary White and Evan Cooch
	18:00 – 21:00	Bar-b-que Social Dr. Gary White's Home 3928 Buckskin Trail LaPorte, CO 80535	
Thu (8 Aug)	8:00-15:00	R-MARK	Brett Collier and Evan Cooch