VT EPSCoR Research on Adaptation to Climate Change

High School Streams Project Training Week Agenda

June 25th – June 29th, 2012

Monday, June 25

2:00-3:00 Check-in to St. Mike's Housing (300 Series Townhouses)

3:00-3:45 Welcome and Project Overview (Cheray 101)

3:45-4:45 Introduction to the Lake Champlain Basin (Cheray 101)

-Neil Kamman, VT Department of Environmental Conservation

5:00-6:30 Kickoff BBQ Dinner (Chapel Lawn)

Tuesday, June 26

7:30-8:30 Breakfast (SMC Dining)

8:30-9:30 Vermont's Climate and Climate Change (Cheray 101) – Alan Betts, Atmospheric Research

9:30-10:45 How Does Rainfall Become Runoff?: Watershed Hydrology – Beverley Wemple, UVM

10:45-11:00 Break

11:00-11:30 The Streams Project Manual (Cheray 101) – Lindsay Wieland, CWDD

11:30-12:00 Introduction to Scientific Research – Sallie Sheldon, Middlebury College

12:00-1:00 Lunch (SMC Dining)

1:00-2:15 Measuring Precipitation: CoCoRaHS (Cheray 101) – Chuck McGill, National Weather Service

2:15-2:45 Create your CoCoRaHS account (JEM 140, 164 and 166) – Chuck McGill

2:45-3:30 Nutrient of Concern: Phosphorus in the Lake Champlain Basin (Cheray 101) – Courtney Giles, UVM

3:30-3:45 What We Measure: Water Quality Measures TP, TN and TSS – Miranda Lescaze, CWDD

3:45-4:30 The Biota: Macroinvertebrate Ecology – Declan McCabe, St. Michael's College

5:00-6:00 Dinner (SMC Dining) followed by evening on your own

Wednesday, June 27

7:30-8:15: Breakfast (SMC Dining)

8:15-3:30: Groups A and B: All Day Field visit (Bag lunch provided)

- Measuring Streamflow – Beverley Wemple, UVM and Katie Chang, CWDD
- Measuring Infiltration – Jody Stryker, UVM
- Soil Sampling – Don Ross, UVM

Group C: Documenting Community Histories in Relation to Land Use and Climate (Cheray 101 & JEM 140) – Lesley Ann Dupigny-Giroux, UVM and Tania Bacchus, Johnson State College

5:00-6:00 Dinner (SMC Dining) followed by evening on your own

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Thursday, June 28

7:30-8:30	Breakfast (SMC Dining)
8:30-9:00	Introduction to Water Quality and Macoinvertebrate Sampling Methods (Cheray 101)
9:00-12:00	Water Quality and Macoinvertebrate Sampling (Field Sites) - Bob Genter, JSC, Sallie Sheldon, Middlebury College, Declan McCabe, St. Mike's, Miranda Lescaze, CWDD, Lindsay Wieland, CWDD and Katie Chang, CWDD
12:00-1:00	Lunch (SMC Dining)
1:00-1:30	How to Upload Field Data (Cheray 101)
1:30-4:30	Group A: Confirming Sampling Sites & Using GoogleEarth to ID Soil Sample Locations (JEM 140) Group B: Macoinvertebrate Identification and Uploading Data (Cheray 301) Group C: Using GoogleEarth and Preparation of Community Flyers (JEM 164)
5:30-7:00	Sendoff BBQ Dinner (Chapel Lawn)

Friday, June 29

7:30-8:30	Breakfast (SMC Dining)
8:30-9:30	Environmental Stewardship and Weather & Climate Datasets (Cheray 101) – Alan Betts
9:30-10:20	Group A: Project Design and Data Analysis – Sallie Sheldon Group B: Shipping Samples – Katie Chang
10:20-11:10	Group A: Shipping Samples Group B: Project Design and Data Analysis
11:10-11:30	Break and Teacher Surveys
11:30-11:45	Workflow and Program Expectations – Miranda Lescaze
11:45-12:00	Example Research Projects – presentations from returning students
12:00-1:00	Lunch (SMC Dining)
1:00-2:00	Equipment Distribution and Housing Checkout