

SAPEC-2020 PROGRAM

Pre-workshop

Time	Activity	Lead	Venue
Saturday, Jan 4 – Sampling			
08:00	Taxis from DLI to Dat Thinh	ICTHER	
08:45	Bus departs from Dat Thinh to Cong Troi (Heaven's Gate)	ICTHER	
10:15	Soil sampling & demonstration (lunch in the field)	Gretchen ICTHER	Cong Troi
16:30	Head back to Bidoup Nui Ba National Park (we can have discussions / bus games along the way)	ICTHER	
18:15	Check in, rest		
19:15	Dinner		Cafeteria
Sunday, Jan 5 – Workshop			
07:00	Breakfast		Cafeteria
08:00	Climate data analysis Hands-on practice Data stewardship	Jacob	Conference Rm
11:45	Reproducible research with R Markdown	Hung	Conference Room
12:00	Lunch		
14:30	Introduction to R Hands-on practice	Hung	Conference Rm
17:00	Thien Thai trail hike	Nam	Thien Thai trail
19:00	Dinner		Cafeteria
20:00	Instructor planning		Auditorium

Main Program - Overview

Date	Activities
Monday, Jan 6	Arrival and welcome Introduction to proxies
Tuesday, Jan 7	Field work
Wednesday, Jan 8	Field work
Thursday, Jan 9	Measurement & chronology building
Friday, Jan 10	Chronology and climate
Saturday, Jan 11	Climate reconstruction
Sunday, Jan 12	Group presentation Closing discussion Departure

Groups

Group 1: dendroclimatology with ring-width (Justin / Grant)

Group 2: dendroclimatology with blue intensity (Justin / Grant)

Group 3: dendroecology (Gretchen, Holger, Paolo)

Group 4: biomarkers and organic geochemistry (Simon, Bridget, Kelsey, Xin)

Sign up: <http://bit.ly/36qG68k>

Detailed program

Time	Activity	Lead	Venue
Monday, Jan 6 — Orientation & Introduction to proxies			
07:00	Breakfast (pre-workshop group)		Cafeteria
08:00	Main workshop group Bus picks up participants from Dalat Airport and then hotel, then heads to BDNP	ICTHER	
	Check-in and rest		
	Pre-workshop group Plotting with ggplot2	Hung	Auditorium
	Soil data analysis	Gretchen	
	Pinus krempffii as an important ecological indicator	Brendan	
11:15	Ice breaking game Group photos	Hung	Cafeteria
12:00	Lunch		
13:00	Introduction to BDNP	Mr. Son	
	Forest fire and preventing solutions proposed for <i>pinus kesiya</i> forest at Bidoup Nui Ba National Park	Dr. Hương	Conference Rm
	Introduction to workshop: goals, program, inspiration	Brendan	
13:45	Introduction to dendrochronology	Justin	Conference Rm
14:00	Tree ring oxygen isotope: a proxy for Asian summer monsoon	Chenxi	Conference Rm
14:30	Stable isotopes help defining and understanding Mediterranean tree rings	Paolo	Conference Rm
15:15	Break		
15:30	Introduction to blue intensity	Grant	Conference Rm
16:00	Introduction to wood anatomy	Holger	Conference Rm
16:30	Introduction to leaf wax	Bridget	Conference Rm
17:00	Introduction to speleothems	Ashish	Conference Rm
17:30	Isotope-enabled GCMs, proxy system models, and others	Ashish	Conference Rm
18:00	Group formation		
18:30	Dinner		Cafeteria
19:30	Dendrochemical analyses of tree rings to reconstruct past air pollution episodes and trends	Paolo	Auditorium
20:00	Demographic Shifts in Eastern US Forests Increase the Impact of Late-season Drought on Forest Growth	Tom	Auditorium
20:15	Wood anatomical response of the Vietnamese conifer <i>Fokienia hodginsii</i> to different climatic parameters	Silvia	Auditorium
Tuesday, Jan 7 — Field day 1 at Giang Ly plot			
07:00	Breakfast		Cafeteria
08:00	Bus departs for Giang Ly Station	ICTHER	
	Walk to Giang Ly plot		
	Field demonstration:		
	• Group 1 + 2: Dendroclimatology	Justin, Grant	
	◦ Tree coring	Namren	Giang Ly plot
	• Group 3: Biomarkers	Bridget	
	◦ Leaf wax sampling	Bridget	
	• Group 4: Dendroecology	Gretchen	
	◦ Wood anatomy sampling	Paolo, Holger	
	Sample collection in groups	Group leaders	
	Lunch in the field or at station with rangers	ICTHER	
	Sample collection in groups	Group leaders	
15:00	Hike out and depart for BDNP	ICTHER	

17:00	Rest		
18:00	Dinner		Cafeteria
19:30	Dendroarchaeology	Juliette	Cafeteria
19:45	Lake sediment case study in China	Xin	Cafeteria
20:00	Reconstructing Holocene relative sea levels: a case study of the Fiji islands	Fangyi	Cafeteria
20:15	Tracking moisture sources and contributions with an isotope-enabled GCM: An interpretive framework for Indian monsoon speleothem records	Gayatri	Cafeteria
Wednesday, Jan 8 — Field day 2 at Hon Giau Dwarf Forest			
07:00	Breakfast		Cafeteria
	Team A: Bus departs for Hon Giau Station Walk to dwarf forest		Hon Giau
08:00	Sample collection: Fokienia hodginsii and syzygium ODK field data collection protocols	Nam Karen	
	Team B: Fire scar and ecological study	Gretchen	BDNP
	Lunch at Hon Giau ranger station		
12:00	Return to BDNP		
13:00	Rest		
14:30	Sample preparation	Group leaders	
17:00	The Monsoon Asia Drought Atlas (MADA) version 2	Ed Cook	Cafeteria
18:00	Dinner		Cafeteria
19:00	Human-wildlife interactions in a rapidly changing landscape: A case study of human encounters with the Sumatran tigers (Panthera Tigris Sondaica) in the Indragiri Hilir Regency, Riau, Sumatra	Weiting	Cafeteria
19:15	Publish or perish: How can a small fish survive in a pool of sharks?	Paolo	Cafeteria
20:00	Group project work	Group leaders	Cafeteria
Thursday, Jan 9 — Methods day 1: Chronology Development			
07:00	Breakfast		Cafeteria
08:00	Introduction to lake sediments / paleolimnology	Kelsey	Cafeteria
08:30	Molecular & Isotopic Proxies in Lacustrine Systems: Principles & Applications	Simon	Cafeteria
09:00	Measurement Demonstration & hands-on practice with CDendro and CooRecorder: ring width & BI Wood anatomy analysis (with microtome, etc.)	Group leaders Grant Holger / Paolo	Cafeteria
12:00	Lunch		Cafeteria
13:00	Chronology Building <ul style="list-style-type: none"> • Cross-dating • Detrending & standardization • Demonstration: ARSTAN • Demonstration: COFECHA • Signal-free standardization 	Ed Cook Justin	Conference Room
16:00	Hand-on practice + project work	Group leaders	Conference Rm
18:00	Dinner		Cafeteria
19:00	Using blue light intensity to reconstruct temperatures from the Intermountain West to Eastern North America	Karen	Cafeteria
19:15	Demonstration: dplR	Justin	Cafeteria
19:45	Data management with ODK and Tellervo	Karen	Cafeteria
20:00	Group project work	Group leaders	Cafeteria

Friday, Jan 10 — Methods day 2: Chronology and climate			
07:00	Breakfast		Cafeteria
	Climate-proxy relationship (using R)		
	<ul style="list-style-type: none"> Which proxy correlates to which climate variable? 		
08:30	<ul style="list-style-type: none"> Correlation analysis Bootstrapping, confidence intervals, statistical significance 	Hung	Conference Rm
10:00	Hands-on practice + project work	Group leaders	Conference Rm
12:00	Lunch		Cafeteria
	Extracting information from proxies		
13:30	<ul style="list-style-type: none"> Principal component analysis Input variable selection 	Stefano	Conference Rm
15:30	Biogeochemistry exercise	Simon	Conference Rm
18:00	Dinner		Cafeteria
19:00	Ostracods as pollution indicators in Lap An Lagoon, central Vietnam	Christabel	Cafeteria
19:15	Effects of anthropogenic activities and climate change on lakes	Anna-Marie	Cafeteria
19:30	Biển Hồ maar sediment as a time capsule of past environmental and climate conditions in Vietnam's Central Highlands back to the last glacial maximum.	Huong	Cafeteria
19:45	Organic geochemistry as a tracer for environmental change in Vietnamese maar lake records	Kelsey	Cafeteria
20:00	Dendrochronology: the future is the past	Ed Cook	Cafeteria
Saturday, Jan 11 — Methods day 3: Reconstruction			
07:00	Breakfast		Cafeteria
08:00	Group project work	Group leaders	Cafeteria
12:30	Lunch		Cafeteria
14:00	Introduction to ICTHER	Son	Conference Rm
14:30	Climate reconstruction: Point-by-point regression	Ed Cook	Conference Rm
16:00	Break		
17:00	Streamflow reconstruction in Monsoon Asia - my meandering PhD journey	Hung	Cafeteria
17:30	Reflections on 20 years of Ping River Catchment research	Alan	Cafeteria
18:00	Effects of drought on the water-energy system of the Mekong–Chao Phraya region: opportunities for integrating paleoclimate into policy	Stefano	Cafeteria
18:30	Dinner		
19:30	K'Ho dance Fireside games	ICTHER Hung	Performance area
Sunday, Jan 12 — Presentation & closing			
07:00	Breakfast		Cafeteria
08:00	Group preparations		Cafeteria
11:00	Group presentations (20 minutes per group)		Cafeteria
12:00	Lunch, closing, group photo		Cafeteria
13:00	Bus departs for Dalat	ICTHER	
14:00	Optional Dalat tour: Ve Chai Pagoda, Lam Dong Museum and others as time permits	ICTHER	