



CNPS 2009 Conservation Conference: *Strategies and Solutions* Pocket Program



Saturday, January 17

8:00 a.m.	Welcome Plenary with Keynote Address by Jerome Ringo, Apollo Alliance, Room: SCC Ballroom			
9:30 a.m.	Refreshment Break (East Lobby)			
		Session 2: Climate Change Room: SCC 306 & 307	Session 3: Planning Tools Room: SCC 314	Session 4: Rare Plants Room: SCC 315
10:00 a.m.	<i>Please silence your cell phones & Enter sessions only during breaks between speakers</i>	Climate Change: Confronting the global experiment. C. Millar (40 minutes)	Stakeholder involvement in obtaining effective HCP's. J. Hopkins	Solar energy: a threat to rare plants in CA deserts & beyond: N. Jensen
10:20 a.m.		The future of CA's endemic flora. S. Loarie	NCCP truth and consequences - A Retrospective. J. Marr	Woodwardia Canyon: Mexican flannelbush. J. Snapp-Cook
10:40 a.m.		Ecol. consequences, snow climate change in Eastern CA. M. Loik	Senate Bill 375: A new, regional level planning tool & law. K. Wagner	Conserving plants using fire at the wildland-urban interface. J. McGraw
11:00 a.m.		Predicting future spread of invasive plants in CA E. Brusati	Coord. HCP's & NCCP's for wetlands conservation & permitting. J. Kopchik	<i>Phytophthora cinnamomi</i> : a threat to rare <i>Arctostaphylos</i> T. Swiecki
11:20 a.m.		N. A.'s edaphic endemic flora: climate change/fire suppress. S. Harrison	Ventura County Locally Important Species and Communities. D. Magney	Conservation of 2 endangered species in North Bay of SF Bay. K. Symonds
11:40 a.m.		U.C. Merced, A consensus planning success story? C. Witham	Status & cons: San Jacinto Valley crowscale in W. Riv. Co. D. Bramlet	
12:00 p.m.	Lunch Break (on own) 1 hour, 30 minutes			
	Session 5: Great Basin Room: SCC 306	Session 6: Central Coast & Valley Room: SCC 307	Session 7: Baja CA Room: SCC 314	Session 4: Rare Plants (cont.) Room: SCC 315
1:30 p.m.	A profile of rarity and rare plant conservation in the CA deserts. J. André (40 minutes)	Smog is slow-release nitrogen fertilizer: implications for conservation of CA biodiversity. S. Weiss (40 minutes)	Cross-border orchid conservation, Baja CA & So. CA. R. Lauri	Summer dormancy in purple amole, endemic to Monterey Co. R. Holland
1:50 p.m.	Stuck on cactus: rare Cactaceae in CA's deserts. S. Ingram	Patterns of plant diversity in northern coastal scrub. E. Wrubel	Rare plants/habitats of Colonel Mesa, Baja CA: Current status. M. Doderer	Recovery status & population growth: Humboldt Bay wallflower. A. Pickart
2:10 p.m.	Peirson's milkvetch: Conservation w/ improved biol. info. M. Porter	CA's fading wildflowers: lost legacy and biological invasions. R. Minnich	Changing land use patterns in coastal zone: Ensenada, Baja CA. C. Leyua	Fish Slough milk-vetch: ecology, trend & habitat restoration. A. Halford
2:30 p.m.	The flora of Joshua Tree National Park. T. La Doux	Climate change & serpentine edaphic endemics: precip./competition. B. Going	The threatened biological resources of Jesus Maria Mesa, Mexico. K. Clark	Genetic variability & pollination ecology: <i>Abronia alpina</i> . M. Jabis
2:50 p.m.	Microbiotic soil crusts: biodiversity, ecol. & cons. J. Johansen	Manzanitas, Maritime Chaparral, and Land Use Dilemmas. M. Vasey	<i>Suaeda</i> & estuary conservation: Baja CA, Sonora, Gulf of CA. W. Ferren	<i>Navarretia ojaiensis</i> : a new rare species. D. Magney
3:10 p.m.	Quantifying herbivore impacts on rare plants: Ash Meadows. B. Pavlik	Vernal pool conservation: past, present and future. C. Witham	Conservation of plant diversity in Northwest Baja CA. J. Garcia-Caudillo	Seedling establishment & survival: Lane Mountain milk-vetch. R. Shariff
3:30 p.m.	Refreshment Break - East Lobby			
4:00 p.m.	Anthro. N deposition: invasive/native species, Joshua Tree N.P. E. Allen	Great Valley vernal pool distribution, re-photorevised 2005. R. Holland	Inventory: rare, endangered, endemic plants of CFP/Baja CA, Mex. B. O'Brien	GIS techniques: inventory, analyze, prioritize E. Bay hot spots. H. Bartosh
4:20 p.m.	Fire on creosote bush scrub: NW Colorado Desert. R. Steers	A floristic analysis of exotic plants in vernal pools. R. Preston	Google Earth to improve mapping & cons. of Baja CA's veg. R. Minnich	25 yrs rare plant management, Point Reyes Nat'l Seashore. J. DiGregoria
4:40 p.m.	Groundwater pumping & native veg. in Owens Valley. S. Manning	Distribution/diversity of native grasses on rangelands: Mt. Hamilton. S. Gennet	Native tree status on Guadalupe Island, B.C., Mex., Genetic Studies. D. Rogers	Regional HCP's as tools to conserve rare plants in CA. D. Zippin
5:00 p.m.	<i>Pinus jeffreyi</i> establ., conifer forest-sagebrush steppe ecotone. H. Alpert	CA rare plants/locally endemic taxa: San Quintin bay, Baja CA. S. Vanderplank	CA rare plants/locally endemic taxa: San Quintin bay, Baja CA. S. Vanderplank	Herbicide spraying of <i>Ambrosia pumila</i> , to control invasives. M. Kelly
5:20 p.m.	Transmontane vernal pools in Modoc National Forest. R. Holland	CA's Great Central Valley: current conservation collaborations. K. Delfino	Digital resources for the flora of Baja CA (40 minutes). J. Rebman	The GGNRA endangered species big year: a race to see & save. B. Plater
5:40 p.m.				Where rare plants are common: BLM Payne Ranch, Colusa Co. E. Dean

Saturday, January 17, Evening: Join us at the Sheraton Grand Hotel for more conference events!

6:00 p.m.	Welcome Reception (6:30 Welcome Address) with Appetizers & No-host bar. 1 st bidding for silent auction! Room: Sheraton Grand Hotel, Camellia and Gardenia Rooms	
7:30 p.m.	Associated Meeting: Consortium of California Herbaria, Room: Sheraton Grand, Bataglieri Conference Room	
8:00 p.m.	Poetry Reading Room: Sheraton Grand, Tofanelli Conference Room	Film Premier: <i>Nature's Refuge</i> Room: Sheraton Grand Camellia & Gardenia

Sunday, January 18

8:00 a.m.	Session 8: Sunday Plenary with Keynote Address by Stephen Hopper, Kew, Room: SCC Ballroom			
9:30 a.m.	Refreshment Break (East Lobby)			
	Session 9: Assessing & Mitigating Room: SCC 306	Session 10: Land Management Room: SCC 307	Session 11: Restoring Rare Plants Room: SCC 314	Session 12: Plant Science Room: SCC 315
10:00 a.m.	Critiquing botanical consulting-20 yr. perspective. S. White	Fire & livestock grazing in arid scrub comm. - S. San Joaq. Valley. E. Cypher	Recovery of federally endangered Santa Cruz Bush Mallow. D. Wilken	Assessing climate change adaptive pot'l in a Sierra Nevada endemic. J. Sexton
10:20 a.m.	Ethics for/of the professional botanist. D. Magney	Mgmt. for native flora diversity in basalt-flow vernal pool grasslands. M. McCrary	Restoration/monitoring effects: Santa Clara Valley dudleya. A. Langston	Field & molecular gen. results in evaluating local adaptation. J. Wright
10:40 a.m.	Rare plant protection guidelines for fuel reduction projects. V. T. Parker	Evaluating effects of cattle grazing on a coastal prairie in Central CA. M. Skaer	Camatta Canyon Amole experimental restoration. D. Hillyard	Genetic structure/reproduction of winter-blooming <i>Dirca occidentalis</i> . W. Graves
11:00 a.m.	Panel discussion (40 minutes)	Livestock grazing effects: protected blue oak woodland. R. Reiner	Experimental treatments & mgmt. of endang. Presidio clarkia. L. Stringer	2 rare vernal pool grasses: <i>Neostapfia colusana</i> & <i>Tuctoria greenei</i> . S. Gordon
11:20 a.m.		Ski slopes: construction methods & community divergence. J. Burt	Restoration/mgmt./reintroduction of an endangered wildflower. G. Hayes	Genetic structure of 3 endang. plants of the Santa Rosa Plain. C. Sloop
11:40 a.m.	Session 13: Contributed Posters with Catered Lunch and Authors or Presenters. Room: East Lobby			
1:40 p.m.	Legislative Action Workshop with Vern Goering, Sheraton Grand Hotel, Bondi Conference Room			
	Session 9: Assessing Room: SCC 306	Session 10: Land Management Room: SCC 307	Session 11: Restoring Rare Plants Room: SCC 314	Session 12: Plant Science Room: SCC 315
1:40 p.m.	Estimating pop'n over U.S. range: Peirson's milk-vetch. J. Willoughby	Fire impacts on native and non-native plants in CA ecosystems. J. Keeley (40 minutes)	Pop'n recruitment constraints: a rare serpentine seep thistle. J. Hillman	Upcoming name changes in the CA flora. D. Potter
2:00 p.m.	Monitoring seedbank of rare desert sand dune species. L. McKinney	Corn lily presence & sub-alpine meadows in Sierra. J. Alford	Survivorship & interactions: pop'n evolutionary potential. E. Espeland	The Consortium of CA Herbaria: maintaining specimen info. R. Moe
2:20 p.m.	Vernal pool restoration: yesterday, today and tomorrow. S. Egan	No fire & understory vegetation change in mixed conifer forests. E. Knapp	Silverswords & lobeliads: Restoring HI's evolution marvels. R. Robichaux	Cryptic vascular-plant diversity and conservation of the CA flora. B. Baldwin
2:40 p.m.	Vernal pool restoration: notes for the future. C. Witham	Simulating land mgmt., predicting persist. of rare orchid. M. Brown	Rare plant protection in the Golden Gate Estuary. P. Fiedler	Invasive species hybridization: its significance to cons. K. Schierenbeck
3:00 p.m.	Cumulative impacts to Central Valley vernal pool ecosystems. M. Wacker	Burning bear grass for CA Indian basketweavers. C. Christofferson	Id'ing common ground for restoration on Santa Cruz Isl. K. McEachern	Incorporating genomics & GIS to ID polyploids of cons. interest. P. McIntyre
3:20 p.m.	Transplantation as mitigation for rare geophytic plant species. A. Thomson	The impact of high fire freq. on CA shrubland ecosystems. R. Halsey	Nat'l & reintroduced rare annual plant pop'ns on gov't land. T. Carlsen	Evolutionary relations in taxon-rich <i>Astragalus lentiginosus</i> . B. Knaus
3:40 p.m.	Refreshment Break (East Lobby)			
4:10 p.m.	Document. emergency salvage, transplant, longterm monit. V. Scheidt	Successfully regenerating native CA oaks: 20 yrs. D. McCreary	To successful reintro: species traits, site quality, & restor. tech. T. Kaye	Spatial isolation: predict dispersal-limit. sites for native species restor? K. Moore
4:30 p.m.	McDonald's rock cress: pop'n decline post-fire success. changes. M. Baad	Oaks 2040: an inventory of carbon and CA oaks. T. Gaman	Adaptive management of Tahoe yellow cress. A. Stanton	Local vs. landscape factors on native restoration along the Sac. Riv. K. Holl
4:50 p.m.	Highly dynamic environments: pop'n demography. G. Platenkamp	Fire to restore Baker cypress pop'ns in N. CA. K. Merriam	Institutions and adaptive management. H. Doremus	Seed zones for native grass restoration in the Sierra Nevada bioregion. K. Rice
5:10 p.m.	An interactive approach to science based planning in CA's oak woodlands. G. Giusti	Fire & persist. of McNab cypress pop'ns in N. CA. C. Mallek	Panel Discussion (40 minutes)	Future climate scenarios to see veg. change E Sierra Nevada. S. Martinson
5:30 p.m.		The Nat'l Native Plant Materials Development Program. P. Olwell		Habitat modeling of gabbroic soils in El Dorado Co., CA. M. Gogol-Prokurat
6:00 p.m.	Session 13 (continued): Contributed Posters with no-host Cocktail hour Silent Auction Final Bidding – Support CNPS Conservation Programs! Room: East Lobby			

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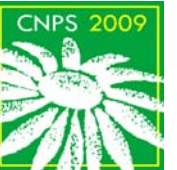
7:00 p.m.	CNPS and CA Botanical Society Banquet with Keynote Address by John Muir Laws. Drawing and Live Auction to support CNPS Conservation Programs Sheraton Grand Hotel Ballroom	
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CNPS 2009 Conservation Conference

Strategies and Solutions

Pocket Program



Monday, January 19

	Session 12: Plant Science (cont.) Room: SCC 315	Session 15: Invasive Plants Room: SCC 306	Session 16: Equal Protection Room: SCC 307	Session 17: Vegetation Room: SCC 314
8:00 a.m.	Reproductive fate of a rare wind-pollinated vernal pool grass. H. Davis	Impact of Invasives' on natives in CA & world. J. Randall	Are plants held as a public trust? M. A. Showers	How to build a state-wide vegetation map. T. Keeler-Wolf
8:20 a.m.	Cryptic anthers & <i>Sidalcea</i> : role of insect pollinators. J. Leong	Invasives in CA & major programs addressing them. W. West	Equal protection for plants under state law. K. Wagner	Vegetation photo interpretation: field ecology from the air. J. Menke
8:40 a.m.	What rare plants can tell us about preserve management. D. Ayres	Tools, approaches: invasives mgmt. D. Gluesenkamp	The role of plants in State Wildlife Action Plans. K. Gravuer	GIS model, historical distribution of native woody veg. in Yolo Co. J. Tuil
9:00 a.m.	<i>Pedicularia crenulata</i> long-term monit. in the E. Sierra. A. Howald	Assessing research priorities: invasives in CA. M. Robison	Fed'l land mgmt. agencies give equal protection? J. Willoughby	Mapping CA's veg. prior to Euro-American modification. M. Salomon
9:20 a.m.	Modeling habitat distrib. of lone manzanita, Amador Co., CA. S. Hiatt	CNPS' role in invasive exotic plant management. R. Case	Panel Discussion	Humboldt Co. dunes, Interagency classific./mapping. A. Solomeshch
9:40 a.m.	Refreshment Break			
	Session 18: Southern CA Room: SCC 307	Session 15: Invasive Plants Room: SCC 306	Session 19: North Western & Sierra, Room: SCC 315	Session 17: Vegetation Room: SCC 314
10:00 a.m.	SW CA and the Channel Islands: An overview. G. Wallace	Reproduction & invasiveness of <i>Eucalyptus</i> in CA. M. Ritter	Evolutionary context: plant mgmt. in N. CA. K. Schierenbeck	Conversion of coastal sage scrub to exotic grassland. K. Preston
10:20 a.m.	The remnant coastal dunes of southern CA. K. Clark	Helicopter survey/treat. of invasives on Santa Cruz Isl. J. Knapp	Rare plant challenges in the Klamath Mountains. J. Sawyer	Vegetation data for regional cons. Planning, SF Bay. R. Branciforte
10:40 a.m.	Locally rare plants of Ventura County. D. Magney	BLM's Payne Ranch Cache Creek Natural Area. C. Thomsen	Relationship: CA native bees & native flowering plants. Gordon Frankie	Mapping/monitoring reg'l veg. dist. for use in cons. planning. B. Fulfrost
11:00 a.m.	San Diego County Plant Atlas: J. Rebman	CNPS invasives control proj. at Edgewood Co. Park. P. Heiple	Fens of the Northern Sierra. J. Bishop	What Grows Here as a tool for local conservation planning. J. Malpas
11:20 a.m.	Conservation strategy: Kelso Creek monkeyflower. N. Fraga	<i>Brassica tournefortii</i> & <i>Erodium cicutarium</i> . R. Marushia	The conifers of Northwest CA. M. Kauffman	A case study of the Big Chico Creek Ecological Reserve. C. Hatfield
11:40 a.m.	Lunch Break (on your own) 1 hour, 20 minutes			
	Session 20: Land Acquisition Room: SCC 306			
1:00 p.m.	Current status of sensitive plants on San Clemente Isl., S. Junak	Conservation in the Tehachapi Connection. M. White	Restoring meadows in North-Central Sierra Nevada Collab. A. Merrill	Assess. pine bark beetle mort. in S. CA forests 1997-2007. M. Rosenberg
1:20 p.m.	Using herbarium specimens to assess climate change, San Diego Co. M. Hawke	Connectivity cons, preserving biodiversity. K. Penrod	Serpentine outcrops, Feather River Ranger Distr. L. Hanson	Change detection, Suisun Marsh, Solano Co. 1999, '03, '06. R. Boul
1:40 p.m.	Using genetic data to manage rare plant taxa. M. McGlaughlin	Proposed Berryessa Snow Mt. Nat'l Cons. Area. B. Schneider	Veg/plant studies in Sequoia & Kings Cyn Nat'l Park. S. Haultain	Using vegetation data to guide fire management. D. Schmidt
2:00 p.m.	Contributions to cons. of CA plants from RSABG. L. McDade	CA's Great Central Valley: current collaborations. K. Delfino	Drought & life history trade-offs: time & size in CA Clarkias. K. Kay	Veg maps for resource mgmt planning: Mt. Tamalpais. J. Klein
2:20 p.m.	A conservation strategy for Hidden Lake Bluecurls. N. Fraga	Planning for conservation of the coast redwoods. L. Kindsvater	Diversity/mgmt. <i>Arctostaphylos</i> & <i>Ceanothus</i> in chap. V.T. Parker	Veg. indices for cons. planning, San Joaq. Valley of CA. S. Phillips
2:40 p.m.	Refreshment Break			
3:00 p.m.	Conservation strategy of <i>Agave shawii</i> subsp. <i>shawii</i> . S. Vanderplank	Native plant & community cons., a shared mission. G. Chisholm	An Ultramafic soil-assoc. rare plant, Klamath Range, NW CA. J. Nelson	Using existing laws to protect rare vegetation. D. Hillyard
3:20 p.m.	Habitat mgmt. for T&E carbonate-endemic plants San Bern. S. Eliason	Cons. partnerships protect biotic communities in CA. J. Donnelly	The Cedars, a Sonoma Co. floristic hot spot & conservation. R. Raiche	CA Coastal Act role: sensitive species/natural communities. J. Engel
3:40 p.m.	Los Angeles Co. significant ecological areas. D. Koutnik	Alternative \$ model for perpetual preserve mgmt. D. Rogers	<i>Lilium</i> of NW CA: Conservation Challenges in 21 st Century. D. Imper	Standardized techniques, Inventory/mapping. J. Evens
4:00 p.m.	Rare plant conservation in San Diego South Co. MSCP. K. McEachern	Land acquisition for cons., BLM in CA. C. Lund	Trends in fire severity and fire activity in the Sierra Nevada, CA. H. Safford	Creating a robust vernal pool veg. classification system. M. Barbour
4:20 p.m.	HCPs/NCCPs and other plans: do they really conserve rare plants? I. Anderson	Panel Discussion		5 millenia of pop'n dynamics: high-alt. pop'n Bristlecone pine. A. Barber
4:40 p.m.	Refreshment Break			
5:00 p.m.	Session 21: Setting the Vision in Motion Plenary, Jim Nelson. Room: Sheraton Grand Magnolia Ballroom			
7:30 p.m.	Associated Meeting: CNPS Rare Plant Committee Meeting; Room: Sheraton Grand Hotel, Tofanelli Conference			

Guide to Contributed Posters

Open daily, Dedicated Session with authors & presenters: Sunday, 11:40 to 1:40 and 6:00 to 7:00 p.m. * East Lobby

Posters are grouped by topics listed at right, and will remain up for viewing throughout the conference. Please view these important research findings and program descriptions! Take advantage of two dedicated sessions to discuss results, future collaborations, or partnerships with authors.

Poster Topic:	Poster numbers:
Outreach	1 – 5
Habitat Conservation	6 – 12
Vegetation	13 – 22
Seeds	23 – 26
Restoration	27 – 37
Rare Plants	38 – 56

Poster Topic:	Poster numbers:
Taxonomy	57 – 63
Ecology	64 - 69
Climate Change	70 - 77
Invasives	78 – 96b
Chapter Posters (alpha. by chap.)	97 - 123

Special Events – Don't miss these!

Exhibitors and Trade Show * Open Daily * Sacramento Convention Center, East Lobby

Association of Environmental Professionals; Analytical Environmental Services; Bureau of Land Mgmt; CA Dept. Water Resources; CA Institute for Biodiversity; Cal-Invasive Plant Council; CA Lichen Society; CA Native Grasslands Ass'n; CA Rangeland Conservation Coalition; CA State Parks; OHV Division; CA Dept. Fish & Game; ECORP Consulting, Inc.; Environmental Science Associates; Habitat 2020; Hedgerow Farms; Heyday Books; High Ranch Nursery, Inc.; ICF Jones & Stokes; Jepson Herbarium; LSA Associates, Inc.; Northern CA Botanists; Pacific Coast Seed; Paula Fong Illustrations; RECON Environmental, Inc.; Southern CA Botanists; Tree Girl; Tree of Life Nursery; USFWS; Westervelt Ecological Services; PG&E

Photography Contest and Botanical Art Contest Galleries * "Conference Choice" Competition *

Open Daily * Sacramento Convention Center, East Lobby

View entries to this year's photography contest, themed "California Native Plants," and the botanical art contest. All entries were judged by a panel of experts. Voting for the "Conference Choice" photo and "Conference Choice" botanical illustration will be open until noon on January 18th. The photo selected by conference attendees will be chosen as the cover of the conference proceedings when published and the illustration selected will be included as well! Be sure to stop in and vote for your personal favorite, and enjoy the artwork!

Silent Auction – Support Conservation! * Open: Saturday, 6:00 to 8:00 p.m., Sacramento Grand Sheraton Ballroom

Final Bidding: Sunday, 6:00 p.m. to 7:00 p.m., Poster Session, Sacramento Convention Center Ballroom

A two-day Silent Auction will be held to benefit CNPS statewide Conservation programs. First bidding: Saturday evening at Welcome Reception. Second bidding: during the poster session and cocktail hour preceding the banquet. Winning bidders posted on Monday morning at the CNPS Registration Desk. A live auction and donation drawing will also be held at Sunday night's banquet. Live auction items: 2-night stay for 4 in a 2-bedroom Yosemite cabin and a 2009 Jepson Herbarium public programs workshop. Silent auction items include: **Manual of The Botany of the Region of San Francisco Bay* (1894) by E.L. Greene; *CNPS workshop; *Cal-IPC workshop; *Limited edition giclee – western columbine; *Roman Loranc photographs of the Central Valley; *Mono Lake canoe tour, water bottle, membership; *Kristin Jakob giclee – coast silktassel; *Margo Bors limited edition print – Ithuriel's spear; *2-night stay at Tahoe cabin; *Mary Carole original oil painting of Washington coastline; *hand-turned wooden bowl; *2-night stay at Cottage at Inverness; *books; *DVD's; *outdoor gear; *botanical novelties; and MORE!

Legislative Action Workshop * Sunday, 1:40 p.m. to 3:40 p.m. * Sheraton Grand Hotel, Bondi Conference Room

Grassroots activism at its best--Learn how to make elected officials listen to your concerns. Key legislative staff and experienced advocates for non-governmental organizations will share their personal experiences and tips for success. This panel will discuss what strategies work with friendly legislators and not-so-friendly legislators; where the best opportunities for our conservation organizations lie in the legislative process; year-round engagement. A new Legislative Session is just getting underway, so introducing yourself and your issues at this time is critical. Check out the Conference website for tips on identifying your representatives, scheduling a meeting, and preparing appropriately.

"Photos of Baja California" by Alan Harper * Sacramento Convention Center Ballroom * Open Daily

Enjoy this stunning collection of photographs by longtime CNPS member Alan Harper at any time during the conference. This special exhibit will transport you from the conference activity to Baja CA. Since 2003, Alan has been using large-format photography to capture the landscapes and the unique plants of Baja California, concentrating on the northwest corner, where extraordinary biodiversity, rapid development, and serene beauty occur in close proximity. He hopes that these photos will help the people of the region appreciate what they have and understand that they may soon lose if no action is taken (www.alanharper.com). Alan has generously offered to donate some of the proceeds to CNPS—bring your check-book; you may like to take this work of art home with you!