

Wednesday, May 06, 2009 (file cac214)

To: Dan Breedon

Fr: Ed Miller

Subj: Basic literature for DIY, developers and county staff

Ref A: P. Serge, *The Fifth Discipline, The Art and Practice of the Learning Organization*, Currency/Doubleday/Random House, 2006

Ref B: K. Johnson, *Water and Land Use Planning for California's future*, Solero Preis

Ref C: H. Sigurdsson, *Encyclopedia of Volcanoes*, Academic Press 2000, Chico State Reference Section, see in particular pp817-834 on Geothermal systems and pp835-855 on Surface Manifestations of Geothermal System from volcanic Heat Sources associated with ground water

Ref D: Chico State Geo 226 class, *Introduction to water in California*, Carle 4<sup>th</sup> Ed

Ref E: B. Van Derpluisjm, *Earth Structures*, 2<sup>nd</sup> Ed, Norton 2004

Ref F: *Getting to know ArcGis9*, ESRI Press 2004, (See Stewart's class in Geo 319)

Ref G: *Design of Geo Databases*, ESRI Press 2004

Ref H: C. Campbell, *Map Use and Analysis*, McGraw Hill

Ref : E.Kolbert, *Field Notes from a Catastrophe*, Bloomsbury 2006

Ref G: M.Altiers, *Agroecology, Science of sustainable agriculture*, Westview Press 1993

Ref H: M. Altiers, *Genetic Engineering, Food First* 2001

Refe I: R. Beeman, *Permanent Ag Land, Ecology in the 20 Th Century*, U. of Kansas Press 2001

Comments:

1. Learning Organization: Per Ref A, we need to recognize that learning is an ongoing process at all levels. Formal attempt needs to be made to make learning an integral part of the decision making process. This is applicable to CAC relationships with the planning department and government relationships with entrepreneurial organizations that are key to general economic development and quality of life.
2. Water and Land use: Ref B is a centerpiece for planning. At a minimum we need to see what graduates of Chico State's Geo 426 class bring to the table and suggest enlightened approaches from the county government point of view. One of the problems with references of this type is associated with evolving goals and the need for updating. We need to follow efforts to provide low cost on-line authoritative sources for the classroom, professional, stakeholder, volunteer and government entities. Amazon and Sony are making efforts in the text book arena. Local

university/college libraries are steering away from hard copies of professional organization journals and utilizing on-line services. Hopefully system engineers and journalists can sift through the large volume of literature in order to eliminate redundancy, root out critical developments and initiate studies.

3. Volcanic effects: Ref C provides orientation to the effects of historic and current volcanic activities that dominate much the surface and sub-surface structures in Butte County. . Specific case studies that are applicable to our county were derived from Wiley's Fundamentals of Volcanic Environment included in Ref C. The Geysers, Lassen and Mt St. Helens are case studies of interest. F. Goff of Los Alamos and C.Janik of USGS are key players in Ref C. H2S mitigation, variability in power production and ground water effects are highlighted. Heat pump geothermal bounds and limits unique to our county are discussed.
4. Introduction to water planning: Ref D in conjunction with Ref B provides a good overview of California water planning.
5. Earth Structures: Ref E provides a handle on what we know and don't know about the complex geology of Butte County and the tools for measurement/observation.
6. Mapping and analysis: Ref F, G and H used in Chico State's Geo 319 class and at various user levels need to be discussed in the general plan in terms of capability if not a direct input-output service. Town and gown cooperation in mapping and analysis may be key to providing a minimum cost general plan overview of land use planning.
7. Catastrophe avoidance: Ref I from Kolbert is a good summary of her recent lecture at Chico State. This book in conjunction with Friedman's book "Hot, Flat and Crowded" I reviewed in Cac 211 should have created a local ground swell of interest in the "green revolution" that will need to be addressed in the general plan.
8. Winds of change in agriculture: Reference J, K and L review hot topics in agriculture that influence land planning in and around the "green line" and elsewhere in Butte County.