

INSTITUTIONAL REVIEW BOARD FOR HUMAN SUBJECTS RESEARCH (IRB/HSR)
CALIFORNIA STATE UNIVERSITY, BAKERSFIELD

Minutes of Meeting
Friday 12 June 2013 [DDH A-108]

Members Present:

Scientific Concerns: Anne Duran, Roseanna McCleary
Nonscientific Concerns: Steve Gamboa, Paul Newberry
Community Concerns: Lily Alvarez, Grant Herndon

Members Absent:

Kathleen Gilchrist, Mike Butler, Penelope Swenson

Visitors:

J. J. Wang for **First 5 Kern Report**,
Gwen Parnell, **GRaSP Administrative Support**,
Randy Schultz for **Edvention Report**

I. CALL TO ORDER

Chair Paul Newberry called the meeting to order at 8:02 AM.

II. APPROVAL OF MINUTES

The minutes of the previous meeting on Friday, 19 April 2013 were approved. McCleary moved, Duran seconded, 6-0.

III. ANNOUNCEMENTS

- A. Results of Recent Standard Review Protocols.** RERC inquired, but none of the recent Standard Review research projects had results to report. However, Gilchrist submitted poster presentations of two of her recently IRB-authorized projects, which were summarized. There was discussion of several of the recent Standard Review projects. Board consensus was that the IRB should continue to seek information about the outcomes of Standard Review projects, perhaps by discussing with the PI's at their reviews whether they would be willing to come back and report at the next June meeting.

IV. OLD BUSINESS

A. **IRB Tracking.** Abbas Grammy did not invite the RERC to provide IRB orientation for his MS students, so it was assumed that there are no empirical culminating projects underway in ADM 690. The RERC will check with Grammy and, if necessary, search the electronic library thesis and project holdings to verify. Ed Sasaki, acting Graduate Coordinator in Sociology, has agreed to add an IRB authorization line to their thesis tracking document.

V. NEW BUSINESS

A. **Formal Board affirmation** of protocols previously approved under **Standard Review, Expedited Review, Third Party Access** and **Exemption from Full Review** since the April 2013 meeting.

1. Standard Review [1] Duran moved, Gamboa seconded, 6-0

Number	Author	Department	E-mail	Title	Date Submitted	Faculty Sponsor	Type of Review	Reviewers	Final Approval	Comments/ Shredded/ Date
13-51	Brandon Bentle	Sociology	pbentle@etzero.net	Evangelical Christian Pastors and Dishonesty within the Leader-Subordinate Relationship	4/10/2012	Rhonda E. Dugan	Standard		5/3/2013	Conditional approval 4/22/2013

2. Expedited Review [1] Alvarez moved, Herndon seconded, 6-0

Number	Author	Department	E-mail	Title	Date Submitted	Faculty Sponsor	Type of Review	Reviewers	Final Approval	Comments / Shredded/ Date
13-28	Mohanapriya Govindan	Department of Public Policy and Administration	mpriyag12@gmail.com	Program Evaluation of Clinica Sierra Vista's WIC Program	2/21/2013	John Hultsman	Expedited	Swenson & Duran	4/15/2013	

3. Third-Party Access to Existing Data [3] McCleary moved, Duran seconded, 6-0

Number	Author	Department	E-mail	Title	Date Submitted	Faculty Sponsor	Type of Review	Reviewers	Final Approval	Comments / Shredded/ Date
13-54	Tish Cooper & Summer Gibbons	Chemistry	agebauer@csu.edu	Student Learning and Success in Chemistry Courses in General and by Gender and Ethnicity in Specific	4/15/2013	Andreas Gebauer & David Saiki	3rd Party	Gilchrist & Newberry	4/23/2013	
13-56	Consepcion Llanes	Department of Public Policy and Administration	cllanes87@hotmail.com	Evaluation of the Alliance Against Family Violence and Sexual Assault Hotline	4/16/2013	John Hultsman	3rd Party		4/19/2013	
13-74	Krista Quiring	Public Policy and Administration	kristakay@gmail.com	Evaluation of the Tele-recruiting Process at Houchin Community Blood Bank	5/3/2013	R. Steven Daniels	3rd Party		5/3/2013	Waiver

4. Exemption from Full Review [12] Alvarez moved, Gamboa seconded, 6-0

Number	Author	Department	E-mail	Title	Date Submitted	Faculty Sponsor	Type of Review	Reviewers	Final Approval	Comments Shredded/ Date
13-43	Maria T. Jimenez	Department of Public Policy and Administration	marjimen80@yahoo.com	Factors influencing career selection among CSUB MPA students.	3/20/2013	John Hultsman	Exemption		4/15/2013	
13-44	Morgan Henry	Advanced Education	mhenrv48357@aol.com	Antelope Valley Water Resources Unit of Study	4/3/2013	Ronald Hughes	Exemption		5/13/2013	
13-53	Elizabeth L. Perrin	Department of Public Policy and Administration	elizabethlou.perrin@gmail.com	Implementation Assessment of the 2012 Three Strikes Reform (Proposition 36)	4/15/2013	R. Steven Daniels	Exemption		4/19/2013	
13-62	Josh Uhalt	Psychology	josh.uhalt@gmail.com	Attitudes Toward Homosexuality and Atheism: Being a Prospective Parent	4/17/2013	Anne Duran	Exemption		4/23/2013	
13-63	Norm Braaten	Educational Administration, University of Nebraska and Office of Research and Sponsored Programs, South Dakota State University	Norm.braaten@sdsstate.edu	An Examination of Minimal Risk Human Subjects Research: Federal Regulation and Institutional Practice	4/22/2013		Exemption		4/23/2013	
13-65	Karen Martinez	Sociology	kmode1101@yahoo.com	"Cosmetic Surgery: Influences and Attitudes"	4/23/2013	Vandana Kohli	Exemption		5/27/2013	
13-70	Mary Colleen Goodman	Department of Public Policy and Administration	mary.goodman@dmityhealth.org	Building Consensus for Improving the Patient Blood Management Program at Mercy Hospitals of Bakersfield	4/24/2013	R. Steven Daniels	Exemption		4/26/2013	
13-72	Anne Baker, Jennifer Fitzsimmons	Nursing	annenbaker@yahoo.com jenfitz27@gmail.com	OB Boot Camp	4/29/2013	Kathleen Gilchrist, Denise Dawkins, Maria Rubolino	Exemption		4/29/2013	
13-75	Benjamin Lewis Rutherford II	Public Policy and Administration	benrutherford3@yahoo.com	Identifying Strategies of Individual Development Account Programs: What Policies Build Strong IDAs?	5/3/2013	Dr. John Hultsman	Exemption		5/6/2013	
13-76	Robert Bravo, Nick Smith, Linda Medina	Psychology	robertbravo7@gmail.com	In-Class Participation Pilot Study	5/9/2013	Anne Duran	Exemption		5/10/2013	
13-79	Evabelen A. Ventura	Department of Public Policy and Administration	evabelenventura@gmail.com	Needs Assessment for a Food Pantry on the CSUB Campus	5/20/2013	R. Steven Daniels & Aaron Hegde	Exemption		5/20/2013	
13-80	Jianyu Wang	PEAK	jwang4@csu.edu	Relationships between BMI, physical activity, perceived competence, and preferences of lifelong physical activity among college students	5/23/2013		Exemption		5/29/2013	

B. Formal Board affirmation [23] of protocols submitted and designated as not falling within the IRB/HSR definition of human subjects research (**not within IRB/HSR purview**) since the April 2013 meeting. Duran moved, Alvarez seconded, 6-0

Number	Author	Department	E-mail	Title	Date Submitted	Faculty Sponsor	Type of Review	Reviewers	Final Approval	Comments/ Shredded/ Date
13-47	Shunnon Thomas	PPA	bulshun@gmail.com	Shortcomings of AB109 The California Realignment Plan	4/10/2013	R. Steven Daniels	NRS		4/10/2013	
13-48	Adriana Sixtos	PPA	asixtos@sub.edu	How Passing the DREAM Act Will Impact the United States	4/10/2013	R. Steven Daniels	NRS		4/10/2013	
13-49	Jeraldín Rubio-Castro	PPA	geraldinrubio@yahoo.com	Policy Analysis of Student Immigration Law of 2012	4/10/2013	R. Steven Daniels	NRS		4/10/2013	
13-50	Maria Garcia	PPA	janvierdos@yahoo.com	A Research Study for Increasing Understanding of the Thriving Informal Economic Sector in Kern County and Public Health Department's Involvement	4/10/2013	John Hultsman	NRS		4/15/2013	
13-52	Patricia Hilderbrand	PPA	trishvonh@gmail.com	Implementation of the Patient Protection and Affordable Care Act (PPACA) and its Effect on the Number of Nurse Practitioners Needed in California and the Local Communities	4/15/2013	John Hultsman	NRS		4/15/2013	
13-55	Sarah Butler-Ribaudo	PPA	sarahribaud@gmail.com	Reforming Health Care Reform: A Policy Analysis of The Patient Protection and Affordable Care Act's Medicare Expansion Project and How that will affect the citizens of Kern County.	4/16/2013	R. Steven Daniels	NRS		4/16/2013	
13-57	Grecia Jasmin Barrera	Health Care Management	greciabarrera24@yahoo.com	The legal, personal, and economic implications of requiring "stay healthy" programs in health programs in public and nonprofit organizations	4/16/2013	R. Steven Daniels	NRS		4/16/2013	
13-58	Sara Smith	PPA	sara.m.smith@biola.edu	Exploring the Nutritional Need for a Clearly Defined Upper Statistical Process Control Limit in Packaged Food Product Manufacturing.	4/16/2013	R. Steven Daniels	NRS		4/16/2013	
13-59	Crystal Holder	PPA	cholder39@gmail.com	Hydraulic Fracturing	4/16/2013	John Hultsman	NRS		4/16/2013	

Formal Board affirmation [23] Continued:

Number	Author	Department	E-mail	Title	Date Submitted	Faculty Sponsor	Type of Review	Reviewers	Final Approval	Comments/ Shredded/ Date
13-60	Rebecca Hyatt	PPA	rhyatt6@yahoo.com	Case Study SB 863	4/16/2013	John Hultsman	NRS		4/16/2013	
13-61	Joseph Clay Wattenbarger	PPA	claywattv@gmail.com	OSHA's impact on smaller businesses	4/16/2013	John Hultsman	NRS		4/16/2013	
13-64	Carly Marie Barulich	PPA	carlybarulich@yahoo.com	The Sacramento-San Joaquin Delta: Securing Water Conveyance in California	4/22/2013	R. Steven Daniels	NRS		4/22/2013	
13-66	Adan Vasquez	PPA	adanvasquez23@gmail.com	Case Study of California Proposition 34	4/23/2013	John Hultsman	NRS		4/23/2013	
13-67	Jessica Arredondo Gomez	PPA	arredondo.njess@yahoo.com	Gun Control	4/23/2013	John Hultsman	NRS		4/23/2013	
13-68	Brett Redd	PPA	brettr@wuesd.org	California K12 School District Organization	4/23/2013	John Hultsman	NRS		4/23/2013	
13-71	Sarah James	PPA	sjames81@yahoo.com	Cost-Benefit Analysis: Marijuana Decriminalization, Regulation, and Taxation	4/29/2013	John Hultsman	NRS		4/29/2013	
13-73	Candice Leigh Singh	PPA	Candice_Singh@ymail.com	Program Analysis of California's Proposition 36: three Strikes Reform Act	5/13/2013	Chandrasekhar Commuri John Hultsman	NRS		5/13/2013	
13-77	Tanika Dodd	PPA	tdodd923@yahoo.com	CalWORKs Program-Time Limit & Cuts	5/13/2013	R. Steven Daniels	NRS		5/13/2013	
13-78	Melissa Danforth	NSF SFS Grant	mdanforth@csub.edu	Cyber Security Panel Presentation	5/15/2013		NRS		5/20/2013	
13-82	Anisa I. Laksmono	PPA	anisa_milleniums@hotmail.com	Immigration Policy Reform for International Students: Global Perspectives	5/23/2013	Dr. John Hultsman	NRS		5/23/2013	
13-83	Lorraine Leynes	Department of Sociology	lorraine.leynes@gmail.com	An Analysis of Cancer Rates Amongst Farmworkers in California's San Joaquin Valley	5/23/2013	Dr. Edna Molina-Jackson	NRS		5/23/2013	
13-85	Kevin F. McNeill	PPA	kevin_mcneill@att.net	Recommendations for Decreasing Minority Suspension/Expulsion Rates in Kern County High Schools (Working Title)	5/28/2013	R. Steven Daniels	NRS		5/28/2013	

C. **Formal Board affirmation [6] of Renewals** since the April 2013 meeting. Protocol 11-123 now has a Fresno E.D.D. dissertation “piggy-backed”, involving an added PI, a focus group, an online survey, and accessing student data. Protocol 12-105 has an added PI and minor modifications in survey questions. Herndon moved, Duran seconded, 6-0

Number	Author	Department	E-mail	Title	Date Submitted	Faculty Sponsor	Type of Review	Reviewers	Final Approval	Comments/ Sifted/Date
08-110	Steve Suter	Psychology	ssuter@csub.edu	CSUB Vision Lab Visual Neuroscience Research Projects	9/23/2008		Standard	Gilchrist & Bashor	10/20/2008	renewed 5/22/2012
09-142	Jacqueline Mimms	Enrollment Management	jmimms@csub.edu	The CSU: Summer Algebra Institute	7/2/2009		3PA		7/2/209	closed 6/12 Renewed 4/2/13
11-123	Dirk Baron	Geological Sciences	dbaron@csub.edu	Dual-Credit Physical Geology Classes: a Strategy of Improving the "Pipeline" from High Schools into University Geology Programs.	7/13/2011		Exemption		7/20/2011	renewed 5/12, Renewed 4/29/2013
12-88	Judy Pedro	Nursing	jpdro@csub.edu	CPHC Follow- up Questionnaire	7/2/2012		Exemption		7/31/2012	Renewed 4/23/2013
12-99	Janet Armentor	Sociology Department	jarmorntor_cota@csub.edu ykohli@csub.edu	Managing social relationships and chronic illness: A qualitative study of women with Fibromyalgia	9/25/2012	N/A	Standard		10/9/2012	
12-105	Yangsuk Ko & Dana Abouelnasr	Mathematics/Physics and Engineering	yko@csub.edu dabouelnasr@csub.edu	Perceptions of Students Taking Calculus	10/12/2012	N/A	Exemption		10/12/2012	Renewed 5/20/2013

D. Formal Board affirmation of protocol closures [19] (unless renewed)
 whose authorization have ended or will end prior to the October 2013 IRB meeting.
 Duran moved, Herndon seconded, 6-0

Number	Author	Department	E-mail	Title	Date Submitted	Faculty Sponsor	Type of Review	Reviewers	Final Approval	Comments / Shredded/ Date
04-124	Cherie Rector and Kathleen L. Gilchrist	Nursing	crector@csuub.edu , kgilchrist@csuub.edu	Are You INN? Outcomes of the INN Program Grant	9/23/2004		Standard Review	Newberry, Bragg, Meares, Lee, Abramson, Leapley	10/11/2004	renewed 5/12
06-77	Kathleen L. Gilchrist	Nursing	kgilchrist@csuub.edu	CSUB Nursing Program Evaluation Project	9/16/2006		Exemption		8/22/2006	renewed 5/12
08-102	Roseanna McCleary & Bruce Friedman	Social Work	rmccleary@csuub.edu	Hartford Partnership Program for Aging Education Career Tracking Survey	8/13/2008		Exemption		9/10/2008	Renewed
10-136	Deborah Boschini	Nursing	dboschini@csuub.edu	Respiratory Hygiene Practices within a Campus Community: An Observational Study	9/24/2010		Exemption		9/24/2010	renewal 5/12
11-129	Danielle Solano	Department of English/Library	dsolano@csuub.edu	Evaluating the Effectiveness of CHEM 290, Careers in Chemistry & Biochemistry.	9/7/2007	Andreas Gebauer	Exemption		9/13/2011	closure 8/12
11-130	Barbara K. Godwin-Asten Fowler	Department of Social Work	lovejoyfaith@yahoocom	Improving Foster Parent Understanding of Children with Prenatal Alcohol Exposure.	9/13/2011	Bruce Friedman	Expedited	Duran & Lee	9/29/2011	closure 8/12
11-134	Nada J. Yorke	Social Work	nyorke@bak.rr.com	Implementing a Cost-Free Batterer's Intervention Program in the Community.	10/10/2011	Bruce Friedman	Exemption		10/13/2011	renewed 5/22/2012
11-135	Mary Storey	Psychology	bullwinky@gmail.com	Beliefs About (Hetero)Sexual Relationships and Homophobia	10/13/2011	Anne Duran	Exemption		10/20/2011	Renewal 2/6/12

Closures Continued:

Number	Author	Department	E-mail	Title	Date Submitted	Faculty Sponsor	Type of Review	Reviewers	Final Approval	Comments / Shredded/ Date
12-80	Sandra Gonzalez	Sociology Department	sgonzalex@tjcpprofessional.s.com	Padres Emigrantes y Su Participacion en las Escuelas	6/1/2012	Edna Molina	Expedited	Gamboa & Duran	8/8/2012	
12-93	Phyllis Heintz	Nursing	pheintz@csusb.edu	Nursing Students' Knowledge and Attitudes toward Upright Toileting Procedures	8/30/2012		Exemption		8/31/2012	
12-94	Connie Petit	Special Education	cpetit@csusb.edu	The Usage of Homebound Instruction: Training, Preparation, and Perceptions of Service Providers	9/17/2012		Exemption		9/25/2012	
12-95	Mary Storey	Psychology, Religious studies	aduran@csusb.edu lgubkin@csusb.edu	Holocaust Class Learning Outcomes	9/21/2012	Anne Duran, Liora Gubkin	Expedited	Duran & Gubkin	10/12/2012	
12-102	Yvonne Ortiz-Bush	Educational Counseling	yortiz-bush@csusb.edu pwenson@csusb.edu	Bullying Prevention and the Pre-service Counselor: A Collaborative Effort	10/1/2012		Exemption		10/2/2012	
12-105	Yangsuk Ko & Dana Abouelnasr	Mathematics/Physics and Engineering	yko@csusb.edu dabouelnasr@csusb.edu	Perceptions of Students Taking Calculus	10/12/2012	N/A	Exemption		10/12/2012	Renewed 5/20/2013
12-106	Dr. Kristina LaGue	Teacher Education and Teacher Quality Programs	klague@csusb.edu	Perceptions of the Academics Literacy Academy	10/12/2012	N/A	Exemption		10/25/2012	Renewed 1/29/2013
12-107	Jenny Holland	Political Science	kprice@csusb.edu yortiz-bush@csusb.edu pwenson@csusb.edu	Age and Political Opinions	10/12/2012	Kent Price	Exemption		10/19/2012	
12-109	Yvonne Ortiz-Bush	Educational Counseling	yortiz-bush@csusb.edu pwenson@csusb.edu	School Counselor Awareness of California Anti-Bullying Legislation	10/18/2012		Exemption		10/24/2012	
12-110	Randy Schultz EdD	Teacher Education	rshultz@csusb.edu	Digital Natives: An analysis of the current technology resources available to incoming freshman and credential students	10/18/2012		Exemption		10/19/2012	
12-111	Robert Bravo, Nick Smith, Linda Medina	Psychology	robertbravo7@gmail.com	Student Ethnicity and Gender: How it relates to in-class participation	10/26/2012	Anne Duran	Exemption		10/27/2012	

E. New Protocol Reviews [none]

F. Renewal of Authorized Protocols [none]

G. Continuing Review of Authorized Protocols

1. **Protocol 07-91:** "Evaluation for Kern County Children and Families Commission [KCCFC]" with J. J. Wang. Primary readers were all members.

The PI summarized. Most of the monitoring and reporting continued as per usual. Discussion focused on the adverse event monitoring procedure and survey implemented June 2012. Questions followed:

[Q = question, A = answer, C = comment]

Q: Do you think that the agency personnel are forthcoming in response to the survey? **A:** They might get used to it. We could use it again a few times and see what happens. The survey does tend to make them wonder if they are in trouble.

C: The IRB expects that there will be adverse events, but it is important for the agency folks to be candid, so we have credible compliance monitoring. It was noted that the wording on the survey had been developed by the PI, Newberry, and Suter working together.

When there were no more questions, the PI was asked to depart and the Board deliberated in executive session.

The Board unanimously approved the quarterly report. Duran moved, Alvarez seconded, 6-0.

The PI was informed when he returned. The Board suggested that the wording associated with the adverse event reporting survey be softened to encourage candid responses. The PI was in agreement. Wang, Duran, and Suter will work on such revisions of the adverse event survey.

2. Edvention and Related [Protocols 10-157, 11-66, 11-68, 11-117, 11-122, 13-84]. With Randy Schultz. Primary readers were all members.

The PI summarized. There has not been much change since the April 2013 report. Protocol 13-84 has just been approved to examine the relationship between self-efficacy of Edvention Fellows and their professional development. The CAM continues in expanded mode. Data on student achievement are flowing to Wright which will directly address effects of Edvention. Persons who study PBIS have become involved, and have done a workshop. Perhaps Fresno E.D.D. students will become involved in data analysis. Schultz et al. are looking at multiple pairs of cooperating teaching and their teaching candidates. Questions followed:

[Q = question, A = answer, C = comment]

Q: Does all this seem to be working well? **A:** Absolutely. And the faculty at CSUB are becoming more involved as it becomes clear that Edvention appears to be effective [in the sense that the Fellows are desirable hires].

Q: There is continuing reluctance for districts to provide the program evaluation data on student performance in relationship to Edvention training? **A:** There are 8 districts cooperating. Edvention will only get aggregate data so that districts, but not particular teachers, can be identified. KHSD has been very cooperative, which is a big plus.

C: CSUB IRB has given the OK for Fresno IRB to handle E.D.D. projects even though they might involve CSUB students and/or data collected from CSUB participants and such deferral is technically not allowed, but is a common practice among university IRB's. RERC argued that this seems appropriate given the cooperative CSUF/CSUB E.D.D. program. There will be a gradual transition of the E.D.D. program and IRB reviews to CSUB. The importance of dealing with one, rather than two, IRB's was noted.

When there were no more questions, the PI was asked to depart and the Board deliberated in executive session.

The Board unanimously approved the quarterly report. Duran moved, McCleary seconded, 6-0.

The PI was informed when he returned. There was a discussion about monitoring adverse reactions or unanticipated events in the research. There was agreement that the PI and Brooks would be alert for adverse events and also query the Edvention fellows about said events. The next renewal should include a section reporting on adverse events.

Alvarez departed.

VI. OTHER CONCERNS: [none]

VII. MEETING DATES FOR 2013-2014:

Fall 2013: Friday, 04 October 2013
Winter 2014: Friday, 24 January 2014
Spring 2014: Friday, 18 April 2014
Summer 2014: Wednesday, 11 June 2014

VIII. ADJOURNMENT: There was a motion for adjournment at 9:40 AM. Gamboa moved, Herndon seconded, 5-0.

IX. BOARD TRAINING:

A. Spot Checks

1. **Protocol 13-28 [Mohanapriya Govindan & John Hultsman, PPA] "Program Evaluation of Clinica Sierra Vista's WIC Program"** Submitted 2-21-13; authorized 4-15-13; following expedited review.

The major issue was that an administrator at CSV demanded a survey incorporating poor research methodology and the researchers complied, rather than using their expertise to improve the methodology. The IRB protocol was submitted on 4-15-13 for June graduation.

2. **Protocol 13-56 [Consepcion Llanes & John Hultsman, PPA] "Evaluation of the Alliance Against Family Violence and Sexual Assault Hotline"** Submitted 4-16-13; authorized 4-19-13, following Third-Party Access to Existing Data review.

The initial plan to access raw client records with personal identifiers and very sensitive information was abandoned. Records without personal identifiers were turned over to the researcher, which speeded up IRB authorization of this protocol, submitted on 4-16-13 for June 2013 graduation.

B. IRB Orientations for Graduate Students

The IRB Chair and RERC had recently done an IRB orientation for a small group of graduate students with funded research projects. This seemed useful to the students, who had many questions about IRB submission and review, which were answered. It was agreed that the IRB should request the opportunity to conduct an orientation in Fall

2013 for all of the incoming graduate students. They have a spiffy PowerPoint presentation.

C. Dedicated IRB Software

RERC and Gwen have reviewed two possible vendors of software designed to process submission, review, authorization, monitoring and record-keeping of IRB protocols. Finalists are IRBNet and Key Solutions. Either would handle all of the functions currently carried out by our existing hybrid system and would correct the three serious problems with the present submission process: [a] must use Firefox, [b] must submit a single document, and [c] must use forms with text boxes in MS-Word doc. The CSUB Information Security Working Group must query the vendors before any action is taken, which we should not expect until mid-July. The RERC will submit a proposal to the Provost to choose among the two vendors or fix up our present hybrid system.