BOARD OF REGENTS SUPPORT FUND

TRADITIONAL ENHANCEMENT COMPONENT, FY 2010-11

REVIEW OF CHEMISTRY PROPOSALS

Introduction

A review panel consisting of Dr. Isai T. Urasa (Chair), Hampton University; Dr. Richard Foust, James Madison University (VA); and Dr. Cass D. Parker, Clark Atlanta University (GA) met in Baton Rouge, February 25-26, 2011 to evaluate thirty-six (36) proposals submitted to the Traditional Enhancement component of the Board of Regents Support Fund (BoRSF). The proposals requested a total of \$4,711,280 in first-year funding. No proposals requested funding in the second year.

The panel was directed to the following materials prior to the visit: (1) the 36 proposals and their appropriate rating forms; (2) a summary of the proposals submitted listing titles, PIs and their institutions, funds requested; (3) the 2010-11 Traditional and Undergraduate Enhancement Program RFP containing the criteria for evaluation; and (4) a copy of the most recent (2008) Chemistry Report. After studying all proposals before arrival in Baton Rouge, the panel reviewed and evaluated them at the meeting. Each proposal was discussed individually and its merits evaluated with respect to criteria enumerated in the RFP. Each proposal received a thorough and impartial review. Subsequent to the individual evaluations, the panel ranked all proposals and recommended funding levels for those deemed worthy of funding.

This report contains three tables that score and rank all proposals. Table I contains a rank-order list of the eight (8) proposals that are highly recommended for funding with the recommended funding levels. A total of \$1,240,250 was recommended to fund six (6) proposals at the level requested and two (2) partially.

Table II contains the twelve (12) proposals that were recommended for funding if additional funds become available. Table III contains the fourteen (14) proposals that were not recommended for funding. A detailed review of each proposal follows immediately after the tables. A summary of all proposals submitted (Appendix A) and a copy of the rating forms used in the evaluations (Appendix B) are appended at the end of the report.

This year two proposals (006CHE-11 and 035CHE-11) were not sufficiently related to chemistry to be scored and ranked. The panel recommended resubmission of both proposals in the appropriate funding cycle when the primary discipline of each proposal is eligible.

TABLE I 2011 CHEMISTRY ENHANCEMENT PROPOSALS HIGHLY RECOMMENDED FOR FUNDING

		PROPOSAL		FIRST YEAR FUNDS	FIRST YEAR FUNDS	SECOND YEAR FUNDS	SECOND YEAR FUNDS
RANK	RATING	NO.	INSTITUTION	REQUESTED	RECOMMENDED	REQUESTED	RECOMMENDED
1	89	036CHE-11	UNO	\$45,000	\$45,000		
2	88	028CHE-11	TULANE	\$176,730	\$176,730		
3	87	005CHE-11	LSU-BR	\$245,610	\$210,660		
4	86	034CHE-11	UNO	\$307,042	\$293,641		
5	85	008CHE-11	LSU-BR	\$177,704	\$177,704		
6	84	025CHE-11	SU-BR	\$49,716	\$49,716		
7	83	019CHE-11	McNEESE	\$218,200	\$218,200	\$0	\$0
8	82	016CHE-11	LA TECH	\$68,599	\$68,599		
			TOTALS:	\$1,288,601	\$1,240,250	\$0	\$0

TABLE II 2011 CHEMISTRY ENHANCEMENT PROPOSALS RECOMMENDED FOR FUNDING IF ADDITIONAL FUNDS BECOME AVAILABLE

RANK	RATING	PROPOSAL NO.	INSTITUTION	FIRST YEAR FUNDS REQUESTED	FIRST YEAR FUNDS RECOMMENDED
IXAIVIX	KATINO	NO.	INSTITUTION	REGOESTED	RECOMMENDED
9	81	031CHE-11	ULL	\$38,261	\$38,261
10	80	029CHE-11	ULL	\$167,675	\$167,675
11	79	009CHE-11	LSU-BR	\$40,000	\$40,000
12	78	012CHE-11	LSU-BR	\$297,000	\$297,000
13	77	017CHE-11	LOYOLA	\$90,648	\$90,648
14	76	027CHE-11	TULANE	\$89,500	\$89,500
15	75	011CHE-11	LSU-BR	\$301,500	\$301,500
16	74	013CHE-11	LSU-S	\$127,581	\$127,581
17	73	018CHE-11	LOYOLA	\$342,811	\$342,811
18	72	007CHE-11	LSU-BR	\$106,119	\$106,119
19	71	020CHE-11	McNEESE	\$25,425	\$25,425
20	70	001CHE-11	CENTENARY	\$213,863	\$213,863
			TOTALS:	\$1,840,383	\$1,840,383

TABLE III 2011 CHEMISTRY ENHANCEMENT PROPOSALS NOT RECOMMENDED FOR FUNDING

RANK	RATING	PROPOSAL NO.	INSTITUTION	FIRST YEAR FUNDS REQUESTED	FIRST YEAR FUNDS RECOMMENDED	SECOND YEAR FUNDS REQUESTED	SECOND YEAR FUNDS RECOMMENDED
		1101				112020122	
21	69	004CHE-11	LSU-AG	\$171,390	\$0		
21	69	015CHE-11	LA TECH	\$76,287	\$0		
21	69	026CHE-11	SU-BR	\$146,229	\$0	\$0	\$0
21	69	032CHE-11	ULM	\$20,240	\$0		
25	68	014CHE-11	LA TECH	\$100,000	\$0		
25	68	030CHE-11	ULL	\$12,947	\$0		
27	66	010CHE-11	LSU-BR	\$226,455	\$0		
27	66	022CHE-11	NICHOLLS	\$75,858	\$0		
27	66	024CHE-11	NUNEZ	\$164,711	\$0		
30	65	003CHE-11	LSU-AG	\$196,235	\$0		
31	64	002CHE-11	LSU-AG	\$113,362	\$0		
32	63	023CHE-11	NORTHWESTERN	\$60,798	\$0		
32	63	033CHE-11	ULM	\$53,620	\$0		
34	60	021CHE-11	NICHOLLS	\$22,500	\$0		
		006CHE-11	LSU-BR	\$79,705	\$0		
		035CHE-11	UNO	\$61,959	\$0		
			TOTALS:	\$1,582,296	\$0	\$0	\$0

Centenary College	
STIGATOR:	Ernest Blakeney
SAL: Enhance	ed Capabilities in NMR Spectroscopy at Centenary
College	1 17 7
ation	B. The Enhancement Plan
	(Total of 56 Points)
No	B.1 3 (of 5 points)
(of 5 points)	B.2
(of 5 points)	B.3 (of 20 points)
_	$\overline{3}$ (of 5 points)
	B.5 ${}$ (of 2 points)
	B.6 (of 6 points)
(of 6 points)	B.7 Yes x No
(of 1 point)	
(of 3 points)	D. Faculty and Staff Expertise
_	(Total of 12 Points)
Cultural	D.1 (of 12 points)
pact	
	F. Previous Support Fund Awards
of 2 points)	(No Points Assigned)
_ ` `	F.1 Yes x No
(For NS/NE)	
	SAL: Enhance College nation No (of 5 points) (of 5 points) (of 6 points) (of 1 point) (of 3 points) Cultural spact

SPECIFIC BUDGETARY Requested Amount: \$213,863 (if additional funds **RECOMMENDATIONS: Recommended Amount:** \$213,863 become available)

A 400 MHz NMR is requested to be used as a central tool in the implementation of a guided inquiry instructional approach in organic chemistry and biochemistry at Centenary College. The instrument will also be accessible to other institutions, e.g., the LSU Health Sciences Center Shreveport. The introduction of a guided-inquiry approach is a sound goal. However, the application lacks clarity in several areas. It is unclear exactly how the NMR will be integrated in laboratory instruction for the intended purpose. To what extent will students be able to operate the instrument? Will other instruments be included in the guided-inquiry approach, and if so, how will that be done? A clear plan for instrument operation and management for the intended multi-use, including provisions for user training, should have been provided. The proposal is recommended for full funding if additional funds become available.

		PROPOSAL NUM	BER:	002CH	IE-11
INSTITUTION:	Louisiana State Univer	sity and A&M Colleg	e - Agric	ultural Center	
PRINCIPAL INVEST	TIGATOR: Jo	an King		_	
TITLE OF PROPOSA	AL: Enhancing the	ne Food Science Ca	rbohydra	ite Laboratory	
A. The Current Situa (Total of 10 Points)	tion	B. The Enha (Total of 56 P		Plan	
A.1 Yes x	No (of 5 points) (of 5 points)	B.1 B.2 B.3	5 8 10	(of 5 points) (of 18 points) (of 20 points)	
	(of 6 points)	B.4 B.5 B.6 B.7 Yes	5 2 3 x	(of 5 points) (of 2 points) (of 6 points) No	X
C.3 1	(of 1 point) (of 3 points)	D. Faculty at (Total of 12 P	oints)	•	
E. Economic and/or C Development and Imp (Total of 12 Points) E.1 2		D.1 F. Previous S (No Points As		(of 12 points) Fund Awards	
E.2a 5 or E.2b	(For S/E) (of 10 points) (For NS/NE)	F.1 Yes	X	No	
G. Total Score:	64 (of 100 points	s)			
(Note: Proposals with	a total score below 70 v	vill not be recommend	ed for fu	nding.)	
SPECIFIC BUDGET	ARY Requested A	mount:	\$113,362	2	

This application requests state-of-the-art equipment to be used in modernizing research and teaching in food science. The overall objective is consistent with the State of Louisiana's Vision 2020 for economic growth. Moreover, the requested instruments, e.g., HPLC, are suitable for research and teaching in food science. However, there was not enough explanation of existing resources and how they would be enhanced. In order for maximum benefit to be realized, it is important that good plans for using the facilities are in place. The training of students and others, for example, is important and information on this should have been provided. What new capabilities will this project facilitate that will bring about or add to institutional eminence? The panel does not recommend funding for this proposal.

Recommended Amount:

RECOMMENDATIONS:

	PROPOSAL NUMBER:	003CHE-11
INSTITUTION: Louisiana State Unive	rsity and A&M College - Agricu	ıltural Center
PRINCIPAL INVESTIGATOR: C	ristina Sabliov	
	of Characterization and Proces	
for Nanotec	hnology and Bioenergy Application	ations
A. The Current Situation	B. The Enhancement I	Plan
(Total of 10 Points)	(Total of 56 Points)	
A.1 Yes x No	B.1 5	(of 5 points)
A.2 $\overline{3}$ (of 5 points)	B.2 9	(of 18 points)
$A.3 \qquad \boxed{3} \qquad \text{(of 5 points)}$	B.3 10	(of 20 points)
`` • • • • • • • • • • • • • • • •	B.4 3	(of 5 points)
C. Equipment	B.5 1	(of 2 points)
(Total of 10 Points)	B.6 3	(of 6 points)
C.1 5 (of 6 points)	B.7 Yes x	No
C.2 (of 1 point)		
$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$	D. Faculty and Staff E	xpertise
(*********************************	(Total of 12 Points)	
E. Economic and/or Cultural	D.1 12	(of 12 points)
Development and Impact		(or 12 points)
(Total of 12 Points)	F. Previous Support F	und Awards
E.1 2 (of 2 points)	(No Points Assigned)	
E.2a $\frac{2}{5}$ (For S/E)	F.1 Yes x	No
or $\frac{1}{10000000000000000000000000000000000$	1.1 105 <u>N</u>	
E.2b (For NS/NE)		
(10110712)		
G. Total Score: 65 (of 100 point	ts)	
Cor 100 point	<i>,</i>	
(Note: Duemosola with a total good: 1-1 70		Jina)
(Note: Proposals with a total score below 70	wiii not be recommended for fun	ung.)

SPECIFIC BUDGETARYRequested Amount:\$196,235RECOMMENDATIONS:Recommended Amount:\$0

The equipment requested in this application will augment existing facilities in nanotechnology and bioengineering to support new initiatives in biofuels research. While the equipment requested could have an impact, the proposal is somewhat lacking in explanations of how the equipment will be integrated in teaching and research. An example of a research program or project that would be enhanced should have been given to show how one particular instrument could make a difference in advancing the objectives of that program or project. Likewise, a specific example of a course or curriculum and how it will be advanced by a particular instrument should have been provided. The proposal is not recommended for funding.

	PROPOSAL NU	MBER:	004CHE-11
INSTITUTION: Louisiana Sta	ite University and A&M Coll	ege - Agric	cultural Center
PRINCIPAL INVESTIGATOR:	Qinglin Wu		
TRINCHAL INVESTIGATOR.	Qirigiiri vvu		_
TITLE OF PROPOSAL: Adv	vanced Quartz Crystal Micro	obalance v	vith Dissipation
	CM-D) Monitoring for Surfac		•
De	velopment		•
A. The Current Situation		hancement	Plan
(Total of 10 Points)	(Total of 50	6 Points)	(0 7
A.1 Yes x No	B.1	4	(of 5 points)
A.2 (of 5 points)	B.2	13	(of 18 points)
A.3 $\boxed{3}$ (of 5 points)	B.3	13	(of 20 points)
	B.4	3	(of 5 points)
C. Equipment	B.5	2	(of 2 points)
(Total of 10 Points)	B.6	4	(of 6 points)
C.1 3 (of 6 points)	B.7 Yes	X	No
C.2 1 (of 1 point)			<u> </u>
$\overline{2}$ (of 3 points)	D. Faculty	and Staff	Expertise
	(Total of 12	2 Points)	-
E. Economic and/or Cultural	D.1	10	(of 12 points)
Development and Impact	•		_ ` ' '
(Total of 12 Points)	F. Previou	s Support	Fund Awards
E.1 1 (of 2 points)	(No Points		
E.2a 5 (For S/E)	F.1 Yes	X	No
or (of 10 points)	111 100		
E.2b (For NS/NE)			
(10110/112)			
G. Total Score: 69 (of	100 points)		
(01	100 points)		
(Note: Proposals with a total score	below 70 will not be recomme	ended for fu	ınding.)
SPECIFIC BUDGETARY Rec	quested Amount:	\$171,39	0

A request is made for a quartz crystal microbalance to support research in materials science. This area of research cuts across several academic areas within the LSU System and includes some collaboration with industry. The equipment will complement existing devices dedicated to surface characterization. The long-term goal is to establish capability and eminence in surface chemistry. Overall, applied research, courses, and outreach programs would be enhanced. Apparently several research groups will have access to the facility but no details are stated regarding how to avoid overprescribing use of the instrument. The application lacks essential details, i.e., examples of existing facilities, number of students to be impacted, and how students and others will be trained. This proposal, as written, is not recommended for funding.

\$0

Recommended Amount:

RECOMMENDATIONS:

		PROPOSAL NUMI	BER:	005CHE-11
INSTITUTION:	Louisiana State Unive	rsity and A&M Colleg	e - Bato	n Rouge
PRINCIPAL INVES	TIGATOR: Ju	ılia Chan		
TITLE OF PROPOS		nt of the LSU Chemis	strv X-ra	v Crystallography
TITLE OF TROTOS	Facility	THE OF THE LOO OHETHIS	Stry X Ta	y Orystanograpmy
A. The Current Situation (Total of 10 Points)	ation	B. The Enha (Total of 56 P		Plan
1 1 77	No	B.1	,	(of 5 points)
A.1 Yes <u>x</u> A.2 5	(of 5 points)	B.2	5 16	(of 5 points) (of 18 points)
$A.3$ $\frac{3}{5}$	(of 5 points)	B.3 —	15	(of 20 points)
A.3 3	(or 3 points)	B.3 B.4	3	(of 5 points)
C. Equipment		B.5 —	1	(of 2 points)
(Total of 10 Points)		B.6	6	(of 6 points)
C.1 6	(of 6 points)	B.7 Yes —	X	No
C.1 0 1		D. / Tes	X	
$\begin{array}{c} C.2 \\ C.3 \end{array} \qquad \begin{array}{c} 1 \\ 3 \end{array}$	(of 1 point)	D. Fooulty or	.d Ctoff I	Ermontia
C.3 <u>3</u>	(of 3 points)	D. Faculty an (Total of 12 P		Experuse
E Essessia and/an	Cultural	`	,	(af 12 maints)
E. Economic and/or		D.1	12	(of 12 points)
Development and Imp	pact	E D	Y 1	C J. A J.
(Total of 12 Points)	(60)	F. Previous S		rund Awards
E.1 1	(of 2 points)	(No Points As	•	N
E.2a 8	(For S/E)	F.1 Yes	X	No
or	(of 10 points)			
E.2b	(For NS/NE)			
G. Total Score: (Note: Proposals wit	87 (of 100 point	,	ed for fu	nding.)
SPECIFIC BUDGET RECOMMENDATION	TARY Requested A	mount:	\$245,610 \$210,660	<u>0</u>

The request in this application is for an upgrade of an 11-year-old x-ray diffractometer that is to be used primarily to support organic chemistry research. The facility will be made available to others as well within the LSU System. The new instrument will add to existing facilities used in structure determination. A number of publications have been generated in this area of research and the PIs hope that the new instrument will enhance productivity in this and related research programs. However, it is unclear how many students will be impacted. How will users and students be trained? In spite of reviewer concerns, the request is well rationalized. The proposal is recommended for funding at the reduced level of \$210,660 with full maintenance of the match listed on the Other line item. The panel suggests that the applicant consider other sources of support for the cryogenic system.

		PROPOSAL NUMBER:	006CHE-11
INSTITUTION:	Louisiana S	State University and A&M College - Bator	Rouge
PRINCIPAL INVE	ESTIGATOR:	Mostafa Elseifi	_
TITLE OF PROPO		cquisition of an Advanced Rheometer to	
	a	nd Research in the Use of Bio-Wastes in	Construction
	<u>A</u>	pplications	
A. The Current Sit	tuation	B. The Enhancement 1	Plan
(Total of 10 Points)		(Total of 56 Points)	
A.1 Yes	No	B.1	(of 5 points)
A.2	(of 5 points)		(of 18 points)
A.3	(of 5 points)		(of 20 points)
		B.4	(of 5 points)
C. Equipment		B.5	(of 2 points)
(Total of 10 Points)	((() () ()	B.6	(of 6 points)
C.1	(of 6 points)	B.7 Yes	No
C.2	(of 1 point)	D E 1/ 10/ 00 E	
C.3	(of 3 points)	D. Faculty and Staff E (Total of 12 Points)	xpertise
E. Economic and/o		D.1	(of 12 points)
Development and I	mpact		-
(Total of 12 Points)		F. Previous Support F	und Awards
E.1	(of 2 points)		
E.2a	(For S/E)	F.1 Yes	No
or	of 10 points		
E.2b	(For NS/NE)	
G. Total Score:	no score (of 100 points)	
(Note: Proposals w	vith a total scor	e below 70 will not be recommended for fur	ding.)
SPECIFIC BUDGI		Requested Amount: \$79,705 Recommended Amount: \$0	
	1	Ψ	-

The panel did not rank this proposal since its primary subject matter is not sufficiently related to chemistry.

		PROPOSAL NUMBER:	007CHE-11
INSTITUTION:	Louisiana State	University and A&M College - Bator	n Rouge
PRINCIPAL INVE	STIGATOR:	Kermit Murray	_
TITLE OF PROPO		flow Liquid Chromatography System	for Macromolecular
	Anays	sis	
A. The Current Sit (Total of 10 Points) A.1 Yes	No (of 5 points) (of 5 points) (of 6 points) (of 1 point) (of 3 points) r Cultural	B. The Enhancement (Total of 56 Points) B.1	(of 5 points) (of 18 points) (of 20 points) (of 5 points) (of 2 points) (of 6 points) No Expertise (of 12 points)
E.1 1	(of 2 points)	(No Points Assigned)	fullu Awarus
E.2a 5 or E.2b	(For S/E) (of 10 points) (For NS/NE)	F.1 Yes	No x
G. Total Score:	72 (of 10	00 points)	
(Note: Proposals w	ith a total score bel	low 70 will not be recommended for fu	nding.)
SPECIFIC BUDGI RECOMMENDAT	-		(if additional funds become available)

A nanoflow HPLC system to complement existing LC-MS systems is requested. The combined facilities will support up to eight different research programs. The addition of nanoflow system capability would provide enhanced capability particularly where sample size is limited. The application is lacking in key areas. The facility will be used by several research groups, but the panel wondered how use of the equipment will be coordinated. How many students will potentially be impacted? What specific aspects or accomplishments will be expected with the new addition? The applicant is also vague regarding the potential economic impact of the project. Nevertheless, the project is recommended for full funding if additional funds become available.

			PROPOSAL	NUMB	ER:	008C	HE-11
INSTITUTION:	Louisiana	State Univers	sity and A&M	College	- Bato	n Rouge	
PRINCIPAL INVE	STIGATOR:	: <u>Ev</u>	gueni Nester	ov		_	
TITLE OF PROPO	OSAL:	Shared Facil	ities for Thin-	Film Ma	terials a	and Devices	
	-	Fabrication a	nd Character	ization:	Vacuu	m Deposition	System
	-		rared Spectro			•	
	•		ъ т			DI	
A. The Current Sit (Total of 10 Points)	tuation			ne Enhan of 56 Po		Plan	
1 1 17	No		(10tai B.1	01 30 PC	5 (5)	(of 5 points	`
A.1 Yes $\frac{x}{5}$	of 5 points	2)	B.1 B.2		15	of 18 points	
A.3 5	(of 5 points)		B.3		12	(of 20 point	
	(or 5 points	,,	B.4		5	of 5 points	
C. Equipment			B.5		2	- (of 2 points	
(Total of 10 Points)			B.6		6	of 6 points	
C.1 6	(of 6 points	s)		Yes —	X	- No	,
C.2 1	- (of 1 point)					_	
C.3 1	of 3 points		D. Fa	culty an	d Staff	Expertise	
	_ ` ^		(Total	of 12 Pc	ints)	-	
E. Economic and/o	r Cultural		D.1		12	(of 12 point	is)
Development and In	mpact					_	
(Total of 12 Points)			F. Pro	evious S	upport i	Fund Awards	
E.1 2	of 2 points	s)	(No Po	oints Ass	igned)		
E.2a 8	(For S/E)		F.1 Y	Yes		No	X
or	(of 10 poin						
E.2b	(For NS/N	E)					
G. Total Score:	85	(of 100 points)				
(Note: Proposals w	vith a total sco	re below 70 w	rill not be reco	mmende	d for fu	inding.)	
SPECIFIC BUDGE	TADV	Doguested An	ount.		177 70	1	

The equipment requested will support materials research, which is a priority area of the LSU Department of Chemistry. About 80 PhD students will be impacted. The requested equipment will replace a fairly old system; therefore, significant improvement is expected in terms of research productivity and quality. However, the applicant does not address specifically how the new technology will catapult the program to new levels. Offered instead is a long list of accomplishments to date. What are some examples of existing and potential partnerships related to the research program? What is the departmental plan for equipment maintenance and repair? Despite these deficiencies, this is a good proposal that the panel recommends for full funding.

Recommended Amount:

RECOMMENDATIONS:

	PROF	OSAL NU	MBER:	009CHE-11
INSTITUTION: Louisian	na State University and	A&M Coll	lege - Bator	n Rouge
PRINCIPAL INVESTIGATO	R: Amitava F	Roy		_
TITLE OF PROPOSAL:	Synchrotron Small A	ingle X-ray	y Scattering	1
A. The Current Situation		B. The Er	nhancement 1	Plan
(Total of 10 Points)		(Total of 5	6 Points)	
A.1 Yes x No		B.1	5	(of 5 points)
A.2 $\overline{3}$ (of 5 poi	nts)	B.2	12	(of 18 points)
A.3 (of 5 poi	nts)	B.3	15	(of 20 points)
	,	B.4	5	(of 5 points)
C. Equipment		B.5	2	of 2 points)
(Total of 10 Points)		B.6	5	(of 6 points)
C.1 3 (of 6 poi	nts)	B.7 Yes	X	No
C.2 1 (of 1 poi				
C.3 (of 3 poi		D. Faculty	y and Staff E	Expertise
(or 5 por	ints)	(Total of 1		mper use
E. Economic and/or Cultural		D.1	12	(of 12 points)
Development and Impact		D.1	12	_ (Of 12 points)
(Total of 12 Points)		F Proviou	us Support F	Fund Awards
	nta)	(No Points		unu Awarus
E.1 2 (of 2 poi E.2a 8 (For S/E		<u> </u>	Assigned)	No
	,	1.1 168	X	
E.2b (For NS)	(NE)			
G. Total Score: 79	(of 100 points)			
(Note: Proposals with a total s	— score below 70 will not b	e recomme	ended for fu	nding.)
SPECIFIC BUDGETARY	Requested Amount:		\$40,000	(if additional funds
RECOMMENDATIONS:	Recommended Amou	nt:	\$40,000	become available)

The equipment requested will be used to support research at the Center for Advanced Microstructures and Devices (CAMD) at LSU. CAMD is a synchrotron radiation-based research facility and the only such center in the South. A lot of information is provided in this application, much of it not to the point. Research programs that would benefit the facility were described, but it is unclear how the researchers will be accomodated at the Center. How will the requested addition catapult the program to higher levels? What is the procedure for using CAMD equipment and facilities? The panel recommends this application for full funding if additional funds become available.

		PROPOSAL NU	MBER:	010CHE-11
INSTITUTION: Loui	siana State L	Iniversity and A&M Coll	ege - Bato	on Rouge
PRINCIPAL INVESTIGA	ATOR:	Steven Soper		
TITLE OF PROPOSAL:	Enhand	cement of Lithography-l	Based Pro	cessing Tools for
	Lab-on	-a-Chip Devices in Che	mistry and	l Biology
A.2 2 (of 5 A.3 3 (of 5 C. Equipment	No 5 points) 5 points)	B. The Er (Total of 50 B.1 B.2 B.3 B.4 B.5		(of 5 points) (of 18 points) (of 20 points) (of 5 points) (of 2 points)
(Total of 10 Points)		B.6	6	(of 6 points)
C.1 6 (of 6	o points)	B.7 Yes	X	No
	l point)			<u> </u>
	· · · · ·		-	
E. Economic and/or Cultu	ıral	D.1	12	(of 12 points)
Development and Impact (Total of 12 Points) E.1 2 (of 2	2 points)	F. Previou (No Points		Fund Awards
	· S/E)	F.1 Yes	X	No
	10 points) : NS/NE)			
G. Total Score:	of 100	points)		
(Note: Proposals with a to	otal score belov	v 70 will not be recomme	ended for fu	ınding.)
SPECIFIC BUDGETARY RECOMMENDATIONS:	_	ed Amount: nended Amount:	\$226,45	55 50

This proposal seeks support for obtaining materials to make lab-on-a-chip devices. This is consistent with new interests at LSU to promote research in microfabrication with emphasis on sensing systems. The goals and objectives listed in the proposal are not specific to the equipment and materials requested. Implementation of the project is contingent on completion of a building annex in which the research will be conducted. The enhancement plan section was incomplete and rather vague, and the section on economic development was poorly addressed. The proposal as written is not recommended for funding.

		PROPOSAL NUMBER	R: 011CHE-11
INSTITUTION:	Louisiana Sta	te University and A&M College -	Baton Rouge
PRINCIPAL INVE	ESTIGATOR:	George Stanley	
TITLE OF PROPO) MHz NMR for Chemistry and Biosearch	ological Chemistry
A. The Current Sit (Total of 10 Points) A.1 Yes	No (of 5 points) (of 5 points) (of 6 points) (of 1 point) (of 3 points) or Cultural	B.2 1 B.3 1 B.4	(of 5 points) (of 18 points) (of 20 points) (of 5 points) (of 5 points) (of 5 points) (of 6 points) No Staff Expertise ts) (of 12 points)
(Total of 12 Points) E.1 2 E.2a 9 or E.2b	(of 2 points) (For S/E) (of 10 points) (For NS/NE)	(No Points Assign	port Fund Awards ned) x No
G. Total Score: (Note: Proposals w		100 points) below 70 will not be recommended to	for funding.)
SPECIFIC BUDGE RECOMMENDAT	ETARY Req	quested Amount: \$30	01,500 (if additional funds 01,500 become available)

Requested is a 600 MHz NMR to replace an aging 400 MHz unit. This addition will be among six other NMR spectrometers ranging from 250-750 MHz at LSU. The rationale is good, but it would have helped the panel if a categorical description of how and where the different systems would be used was provided. What areas will the new 600 MHz impact or what new research areas are planned? How will this equipment catapult the University to new levels in research? In addition to looking at new facilities as recruitment tools, it is important to show also how the facilities will impact current students. The panel recommends the proposal for full funding if additional funds become available.

		PROPOSAL NUMBER	R: 012CHE-11
INSTITUTION:	Louisiana State Univer	sity and A&M College -	Baton Rouge
PRINCIPAL INVE	ESTIGATOR: Do	onghui Zhang	
TITLE OF PROPO	DSAL: Acquisition o	of Shared. Multi-User Ins	trumentation Resources:
			aterials Characterizations
A. The Current Sit (Total of 10 Points)		B. The Enhance (Total of 56 Point	
A.1 Yes x A.2 5		B.1 B.2	(- r)
A.2 5 A.3 5	(of 5 points)		(of 20 points)
C. Equipment		B.5	· 1 /
(Total of 10 Points)		B.6	
C.1 4	(of 6 points)	B.7 Yes	No
C.2 1	(of 1 point)		
C.3 3	(of 3 points)	D. Faculty and S (Total of 12 Point	-
E. Economic and/o	r Cultural	D.1 1	2 (of 12 points)
Development and In	mpact		
(Total of 12 Points)			port Fund Awards
E.1 2	(of 2 points)	(No Points Assign	The state of the s
E.2a 8	(For S/E)	F.1 Yes	No
or	(of 10 points)		
E.2b	(For NS/NE)		
G. Total Score:	78 (of 100 points	s)	
(Note: Proposals w	vith a total score below 70 v	vill not be recommended f	or funding.)
SPECIFIC BUDGI	ETARY Requested Ar	nount: \$29	7,000 (if additional funds
DECOMMENDAT	TONS: Decommende		7 000 become available)

This proposal requests an ICP and an x-ray fluorescence spectrometer to support research in chemistry, chemical engineering, geology and geophysics. The proposal's goal is to provide a central system of equipment resources. However, the applicant did not indicate how this will be coordinated to accomodate work requests from the numerous areas mentioned. The enhancement plan is lacking in key information, including how this new equipment will catapult the institution to high levels and exactly how current students will be impacted. In the absence of quotations, bids, and other pertinent cost information, the panel could not determine the basis of the budget. Nevertheless, full funding is recommended if additional funds become available.

		PROPOSAL NU	JMBER:	013C	HE-11
INSTITUTION:	Louisiana State	University and A&M Col	llege - Shre	eveport	
PRINCIPAL INVE	STIGATOR:	Brian Salvatore			
				_	
TITLE OF PROPO		ncement of Chemical Sy	nthesis La	boratory Faci	lities
	at LS	08			
A. The Current Sit (Total of 10 Points)	uation	B. The E o (Total of 5	nhancemen	t Plan	
A.1 Yes x	No	B.1	5 Follits)	(of 5 points)
A.1 CS X A.2 5	(of 5 points)	B.1 B.2	12	(of 18 points	
$A.3$ $\frac{3}{5}$	(of 5 points)	B.3	10	(of 20 point	
	_ (or 5 points)	B.4	5	(of 5 points	
C. Equipment		B.5	0	(of 2 points	
(Total of 10 Points)		B.6	6	(of 6 points	
C.1 6	(of 6 points)	B.7 Yes	X	— No	,
C.2 1	(of 1 point)				
C.3 0	(of 3 points)	D. Facult	y and Staff	Expertise	
	_ ` ' '	(Total of 1		•	
E. Economic and/o	r Cultural	D.1	12	(of 12 point	ts)
Development and In	npact			_	
(Total of 12 Points)		F. Previo	us Support	Fund Awards	}
E.1 2	(of 2 points)	(No Points	Assigned)		
E.2a 5	(For S/E)	F.1 Yes		No	X
or	(of 10 points)				
E.2b	(For NS/NE)				
G. Total Score:	74 (of 10	00 points)			
G. Tomi Score	, , (OI 10	, o pomio,			
(Note: Proposals w	ith a total score bel	ow 70 will not be recomme	ended for f	unding.)	
SPECIFIC BUDGE	ETARY Reque	ested Amount:	\$127,58	31 (if additiona	l funds
RECOMMENDAT	IONS: Recor	nmended Amount:	\$127,58	become avai	ilable)

LSU Shreveport requests funds for an FT-IR spectrometer, a digital refractometer, several melting point apparatuses, analytical balances, a gas chromatograph, upgrades to the NMR software and replacement batteries for the NMR UPS unit. These items are needed to replace broken and worn out items, which in some cases are over 20 years old. The need for the items requested is great and well justified. The infrastructure problems and the apparent lack of support from the administration for the chemistry program at LSU Shreveport cause the panel to question whether this investment will be sustained in the future if the requested funds are awarded. Nevertheless, the proposal is recommended for full funding if additional funds become available.

		PROPOSAL NUMBER:	014CHE-11
INSTITUTION:	Louisiana Tech	University	
PRINCIPAL INVE	STIGATOR:	Marilyn Cox	
TITLE OF PROPO		Spectrometer for Undergraduate O	rganic Chemistry
	Labs		
A. The Current Sit	uation	B. The Enhancement	t Plan
(Total of 10 Points)		(Total of 56 Points)	
A.1 Yes x	No	B.1 5	(of 5 points)
A.2 5	(of 5 points)	B.2 15	(of 18 points)
A.3 5	(of 5 points)	B.3 15	(of 20 points)
		B.4 5	(of 5 points)
C. Equipment		B.5 0	(of 2 points)
(Total of 10 Points)		B.6 2	(of 6 points)
C.1 6	(of 6 points)	B.7 Yes x	No
C.2 1	of 1 point)		
$\overline{}$ (of 3 points)		D. Faculty and Staff	Expertise
	_	(Total of 12 Points)	_
E. Economic and/or	r Cultural	D.1 6	(of 12 points)
Development and In	npact		_ `
(Total of 12 Points)	•	F. Previous Support	Fund Awards
È.1 0	(of 2 points)	(No Points Assigned)	
E.2a 0	- (For S/E)	F.1 Yes	No x
or	of 10 points)		_
E.2b	(For NS/NE)		
	_ (1 01 1 (2) 1 (2)		
G. Total Score:	68 (of 10	0 points)	
(Note: Proposals w	ith a total score belo	ow 70 will not be recommended for fu	unding.)
SPECIFIC BUDGE	_	ested Amount: \$100,00	
RECOMMENDAT	IONS: Recon	nmended Amount:	<u>50</u>

This proposal requests funds to purchase an Anasazi Eft90 NMR spectrometer to replace an aging JOEL 270 MHz NMR spectrometer. The new NMR spectrometer is clearly a better match for planned uses in the undergraduate organic chemistry laboratory, where the instrument will see exclusive use, than the current 270 MHz NMR spectrometer. The proposal does not mention what will be done with the existing spectrometer. Although the desire to have access to a more rugged and robust instrument for undergraduate organic chemistry laboratory classes is understandable, the reviewers do not rate the concept of replacing a functioning instrument with a newer instrument of similar capabilities highly. As one of three proposals submitted from the Chemistry Department of Louisiana Tech University, the panel believes that a much stronger project would have resulted from a coherent department plan for instrument acquisition with priorities and justifications assigned to each instrument. This proposal is not recommended for funding.

		PROPOSAL NUMI	BER:	015CHE-11
INSTITUTION:	Louisiana Tech	University		
PRINCIPAL INVI	ESTIGATOR:	Sven Eklund		
TITLE OF PROPO	OSAL: Indus	stry Experience for Undergra	nduates	Using Raman
TITLE OF TROP		troscopy	addico	Comp Raman
		1.7		
A. The Current Si (Total of 10 Points)	tuation	B. The Enha (Total of 56 P		t Plan
A.1 Yes x	No	B .1	5	(of 5 points)
A.2 5	(of 5 points)	B.2	6	(of 18 points)
A.3 5	(of 5 points)	B.3	13	(of 20 points)
		B.4	2	(of 5 points)
C. Equipment		B.5	0	(of 2 points)
(Total of 10 Points)		B.6	6	(of 6 points)
C.1 6	(of 6 points)	B.7 Yes	X	No
C.2 1	(of 1 point)	_		
C.3 3	(of 3 points)	D. Faculty ar	nd Staff	Expertise
		(Total of 12 P	oints)	-
E. Economic and/o	or Cultural	D.1	10	(of 12 points)
Development and I	mpact			_
(Total of 12 Points)		F. Previous S	Support	Fund Awards
E.1 2	(of 2 points)	(No Points As	signed)	
E.2a 5	(For S/E)	F.1 Yes	X	No
or	(of 10 points)			_
or	(For NS/NE)			

SPECIFIC BUDGETARYRequested Amount:\$76,287RECOMMENDATIONS:Recommended Amount:\$0

Louisiana Tech PIs want to purchase a Raman spectrometer to be used in physical chemistry and environmental chemistry laboratories, and undergraduate research projects at the University. This instrument would be in addition to other instrumentation: a 270 MHz NMR, an FT-IR, a GC-MS, a UV-visible spectrophotometer, an electrochemistry workstation and an atomic absorption spectrophotometer. Several undergraduate experiments were proposed for the new spectrometer, but the pedagogical justification for adding Raman spectroscopy experiments into the classes was poorly addressed. The unique capabilities of Raman spectroscopy over the other types of spectroscopy that are currently carried out in the laboratory were also poorly addressed. Because Raman spectroscopy is not often included in undergraduate instrumentation laboratories, the PIs are encouraged to develop their ideas and submit an NSF TUES proposal. As one of three proposals submitted from the University's chemistry faculty, the panel believes that a stronger project would have resulted from a coherent department plan for instrument acquisition with priorities and justifications assigned to each instrument. This proposal is not recommended for funding.

	PROPOSAL NUMBER:	016CHE-11
INSTITUTION: Louisiana Tech	n University	
PRINCIPAL INVESTIGATOR:	Bala Ramachandran	_
TITLE OF PROPOSAL: Shar	red Memory Computational Infrastruc	ture for
Com	putational Chemistry and Materials S	Science Education
A. The Current Situation (Total of 10 Points)	B. The Enhancement (Total of 56 Points)	
A.1 Yes x No A.2 5 (of 5 points) A.3 5 (of 5 points)	B.1 5 B.2 14 B.3 15 B.4 3	(of 5 points) (of 18 points) (of 20 points) (of 5 points)
C. Equipment (Total of 10 Points) C.1 6 (of 6 points)	B.5 B.6 B.7 Yes x	(of 2 points) (of 6 points) No
C.1 6 (of 6 points) C.2 1 (of 1 point) C.3 3 (of 3 points)	D. Faculty and Staff I (Total of 12 Points)	_
E. Economic and/or Cultural	D.1 12	(of 12 points)
Development and Impact (Total of 12 Points) E.1 2 (of 2 points) E.2a 5 (For S/E) or (of 10 points) E.2b (For NS/NE)	F. Previous Support I (No Points Assigned) F.1 Yes x	F und Awards No
<u> </u>	00 points) elow 70 will not be recommended for fu	nding.)
-	nested Amount: \$68,599 commended Amount: \$68,599	

This proposal requests computer hardware and software that will be used to support a well-developed computational chemistry program at Louisiana Tech University. Computational chemistry is currently used in the following classes: advanced physical chemistry, quantum mechanics, statistical thermodynamics, solid-state chemistry and nano-systems modeling. In addition to contributing to coursework, these computers will be a focal point for demonstrations and outreach activities to local high school teachers through a K-12 outreach program and an Engineer's Day held annually at Louisiana Tech. The equipment will be used because the existing LONI network is incapable of meeting the computational chemistry needs of the Department. This proposal is recommended for full funding.

		PROPOSAL NUMBER:	017CHE-11
INSTITUTION:	Loyola University	y	
PRINCIPAL INVI	ESTIGATOR:	Lynn Koplitz	_
TITLE OF PROPO	OSAL: Multipl	hase Analysis and Solid Structure	Determination by
	Powde	er X-Ray Diffraction	
A. The Current Si	tuation	B. The Enhancement	Plan
(Total of 10 Points)		(Total of 56 Points)	
A.1 Yes x	No	B.1 5	(of 5 points)
A.2 3	(of 5 points)	B.2 15	(of 18 points)
A.3 3	${}$ (of 5 points)	B.3 13	(of 20 points)
	(** * F *****)	B.4 3	(of 5 points)
C. Equipment		B.5 2	(of 2 points)
(Total of 10 Points)		B.6 6	(of 6 points)
C.1 6	(of 6 points)	$\frac{B.7}{B.7}$ Yes $\frac{3}{x}$	- No
$C.2$ $\frac{0}{1}$	(of 1 point)	D .7 Tes	
C.3 3	(of 3 points)	D. Faculty and Staff	Evnertise
<u> </u>	(Total of 12 Points) (Total of 12 Points)		L'Apertise
E. Economic and/o	or Cultural	D.1 12	(of 12 points)
Development and I		D.1 12	_ (or 12 points)
(Total of 12 Points)	трасі	F. Previous Support	Fund Awards
E.1 0	(of 2 points)	(No Points Assigned)	runa Awaras
E.2a 5	(For S/E)	F.1 Yes	No x
or	(rof 3/E) (of 10 points)	1.1 165	
E.2b	(For NS/NE)		
E.20	(FOI NS/NE)		
G. Total Score:	77 (of 100	0 points)	
(Note: Proposals w	vith a total score belo	ow 70 will not be recommended for fu	nding.)
SPECIFIC BUDG	-		8 (if additional funds
RECOMMENDAT	TIONS: Recom	mended Amount: \$90,64	8 become available)

This proposal is a request for funds to purchase a powder x-ray diffractometer that will supplement existing instrumentation in the Chemistry Department at Loyola University New Orleans. The justification for the request is that the diffractometer will be heavily used in a planned forensic chemistry program. The instrument will also be used in upper division physical chemistry and instrumental analysis laboratories and with undergraduate research programs. This would be a new instrument for a Department that already has an impressive array of modern analytical instrumentation. However, the proposed experiments are not fully developed and it appeared to the reviewers to be just a menu of possible activities rather than a selection of well-developed student laboratory experiments. The panel, however, recommends full funding for the project if additional funds become available.

		PROPOSAL NUM	BER:	018CHE-11
INSTITUTION: Loyola	a University			
PRINCIPAL INVESTIGAT	for: <u>T</u>	homas Spence		
TITLE OF PROPOSAL:	Liquid Chro	matograph/Mass Spe	ectromet	ter to Support
	Collaborativ	e Industrial Research	n at Loy	ola University
A. The Current Situation		B. The Enha		t Plan
(Total of 10 Points)		(Total of 56 F	Points)	
A.1 Yes x No)	B.1	5	(of 5 points)
	points)	B.2	12	(of 18 points)
A.3 $\overline{3}$ (of 5 μ	points)	B.3	14	(of 20 points)
		B.4	3	of 5 points)
C. Equipment		B.5	0	(of 2 points)
(Total of 10 Points)		B.6	3	(of 6 points)
C.1 6 (of 6)	points)	B.7 Yes	X	No No
$C.2$ 1 (of 1 \mathfrak{g}		_		_
$\overline{}$ (of 3 points)		D. Faculty a	nd Staff	Expertise
	,	(Total of 12 F		•
E. Economic and/or Cultura	al	D.1	12	(of 12 points)
Development and Impact		_		<u> </u>
(Total of 12 Points)		F. Previous	Support	Fund Awards
	points)	(No Points As		
E.2a $\frac{1}{5}$ (For S		F.1 Yes	X	No
· · · · · · · · · · · · · · · · · · ·	points)			
	NS/NE)			
(1011	·-· · · · · · · · · · · · · · · · · · ·			
G. Total Score: 73	(of 100 poin	ts)		
73	(or roo point	(6)		
(Note: Proposals with a total	al score below 70	will not be recommend	led for fu	ınding.)
SPECIFIC BUDGETARY	Requested A	amount:	\$342,81	1 (if additional funds
RECOMMENDATIONS:	Recommend	ed Amount:	\$342,81	1 become available)

This proposal is a request for funds to purchase a liquid chromatograph/mass spectrometer that will supplement existing instrumentation in the Chemistry Department at Loyola University. The LC-MS/MS will be used in the biochemistry laboratory and an advanced analytical chemistry laboratory in addition to a joint research program that will benefit three faculty members. The curriculum development plan lacked sufficient detail to evaluate the merits of the LC-MS/MS system requested. It is difficult to justify the expense of an LC-MS/MS system without additional details about how the instrument will be used, maintained and serviced. Nevertheless, if additional funds become available, the project is recommended for full funding.

		PROPOSAL N	IUMBER:	019CHE-11
INSTITUTION	N: McNeese St	ate University		
PRINCIPAL II	NVESTIGATOR:	Ron Darbeau		
TITLE OF DD	ODOGAL.	aguicition of a 200 MHz N	luala an Mare	notic December
TITLE OF PR		equisition of a 300 MHz No ectrometer for Instruction		
	<u> </u>		Trana 11000	urori
A. The Curren	t Situation	B. The E	nhancement	Plan
(Total of 10 Poi	nts)	(Total of 5	56 Points)	
A.1 Yes	x No	B.1	5	(of 5 points)
A.2	5 (of 5 points)	B.2	18	(of 18 points)
A.3	5 (of 5 points)	B.3	10	(of 20 points)
	<u> </u>	B.4	5	(of 5 points)
C. Equipment		B.5	1	(of 2 points)
(Total of 10 Poi	nts)	B.6	6	(of 6 points)
C.1	6 (of 6 points)	B.7 Yes	X	- No
C.2	1 (of 1 point)			
C.3	3 (of 3 points)	D. Facult	y and Staff	Expertise
	(1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(Total of 1	•	1
E. Economic a	nd/or Cultural	D.1	12	(of 12 points)
Development ar		_,_		_ (** F *****)
(Total of 12 Poi		F. Previo	us Support	Fund Awards
E.1	1 (of 2 points)		s Assigned)	
E.2a	$\frac{1}{5}$ (For S/E)	F.1 Yes	X	No
or	(of 10 points)			
E.2b	(For NS/NE)			
	()			

(Note: Proposals with a total score below 70 will not be recommended for funding.)

		YEAR 1	YEAR 2
SPECIFIC BUDGETARY	Requested		
RECOMMENDATIONS:	Amount:	\$218,200	\$0
	Recommended		
	Amount:	\$218,200	\$0

The applicant requests funds to purchase a 300 MHz nuclear magnetic resonance spectrometer that will be used in instruction and research at McNeese State University. The requested instrument will replace an older 300 MHz NMR spectrometer that was damaged during the hurricanes of 2005 and is not repairable. The Department has invested considerable resources and effort to repair the existing NMR spectrometer to no avail. The magnet on the existing instrument was quenched during Hurricane Katrina and the faculty has not been able to get a stable instrument operating after numerous service calls. Without an NMR in the Chemistry Department, McNeese risks losing certification for the American Chemical Society-certified chemistry major. The Department estimates that approximately 2,000 students a year will benefit should this request be granted. The panel recommends this proposal for full funding.

		PROPOSAL NUMBER:	020CHE-11
INSTITUTION:	McNeese State	University	
PRINCIPAL INVE	STIGATOR:	Joseph Sneddon	<u> </u>
TITLE OF PROPO		ooration of Microwave Technology rgraduate Analytical and Organic (
A. The Current Sit (Total of 10 Points) A.1 Yes	No (of 5 points) (of 5 points) (of 6 points) (of 1 point) (of 3 points)	B. The Enhancemen (Total of 56 Points) B.1	(of 5 points) (of 18 points) (of 20 points) (of 5 points) (of 2 points) (of 6 points) No
E. Economic and/o Development and In (Total of 12 Points)	mpact	D.1 12 F. Previous Support	(of 12 points) Fund Awards
E.1 1 E.2a 5 or E.2b	(of 2 points) (For S/E) (of 10 points) (For NS/NE)	(No Points Assigned) F.1 Yes	Nox
G. Total Score:		00 points)	imdina)
SPECIFIC BUDGI RECOMMENDAT	ETARY Reque		25 (if additional funds become available)

This proposal requests funds to purchase a laboratory-based microwave unit for use in the analytical chemistry and organic chemistry laboratories at McNeese State University. The microwave system will be used for sample preparation in an analytical chemistry laboratory course, an instrumental analysis class, and to demonstrate "green synthesis" to organic chemistry students. Several faculty members would potentially benefit by having this instrument available to use with undergraduate research projects. The enhancement plan lacks details about the advantages of adding microwave technology to the curriculum. Specific applications in trace metal analysis and an expanded discussion of the reduced use of solvents in organic synthesis would have strengthened the proposal. This proposal is recommended for full funding if additional funds become available.

	PROPOSAL NUMBER:	021CHE-11
INSTITUTION: Nicholls State	e University	
PRINCIPAL INVESTIGATOR:	Ronald Baker	_
TITLE OF PROPOSAL: Acc	quisition of an FTIR Spectrometer for C	Chemistry
Ins	truction	·
A. The Current Situation	B. The Enhancement	Plan
(Total of 10 Points)	(Total of 56 Points)	(-f. 5 : - (-)
A.1 Yes $\frac{x}{\sqrt{5}}$ No	B.1 5	$\frac{\text{(of 5 points)}}{\text{(of 10 } \cdot \cdot \cdot \cdot)}$
A.2 5 (of 5 points) A.3 (of 5 points)	B.2 10	(of 18 points)
A.3	B.3 B.4 5	(of 20 points)
C F		(of 5 points)
C. Equipment	B.5 0	(of 2 points)
(Total of 10 Points)	B.6 4	(of 6 points)
C.1 6 (of 6 points)	B.7 Yes x	No
$\begin{array}{c} \text{C.2} & \boxed{1} & \text{(of 1 point)} \\ \hline \end{array}$	D E 14 1.04 66 F	
C.3 (of 3 points)	D. Faculty and Staff E (Total of 12 Points)	Expertise
E. Economic and/or Cultural	D.1 8	(of 12 points)
Development and Impact		_ ` ' '
(Total of 12 Points)	F. Previous Support F	Fund Awards
E.1 0 (of 2 points)	(No Points Assigned)	
E.2a $\frac{1}{0}$ (For S/E)	F.1 Yes	No x
or (of 10 points)		
E.2b (For NS/NE)		
(1 51 1 (5) 1 (5)		
C T-4-1 C	2100 (-1-1-)	
G. Total Score: 60 (of	100 points)	
(Note: Proposals with a total score l	below 70 will not be recommended for fur	nding.)
SPECIFIC BUDGETARY Rec	quested Amount: \$22,500)
· · · · · · · · · · · · · · · · · · ·	commended Amount: \$0	

This proposal requests funds to purchase an FT-IR spectrometer with an attenuated total reflectance (ATR) option package. The instrument would be used in the organic, inorganic, physical and instrumental analysis laboratories, in an advanced special topics course and in a forensic chemistry lab. The requested instrumentation will replace a non-functional FT-IR spectrometer. This proposal poorly addressed the enhancements that would result from funding and the economic and cultural development and impact section. Too much verbiage was devoted to explaining why the PI will purchase a specific instrument (Bomem) at the expense of discussing how the instrument would be used in the classes listed in the proposal. No funding is recommended.

	PROPOSAL NUMBER:	022CHE-11
INSTITUTION: Nicholls State U	niversity	
PRINCIPAL INVESTIGATOR:	Raj Boopathy	_
TITLE OF PROPOSAL: Upgra	ding Chemistry Instructional Equipr	ment in the
	onmental Chemistry Laboratory	
	D (E) E 1	DI
A. The Current Situation	B. The Enhancement	Plan
(Total of 10 Points)	(Total of 56 Points)	(C 7 · · ·)
A.1 Yes x No	B.1 5	(of 5 points)
A.2 <u>5</u> (of 5 points)	B.2 9	(of 18 points)
A.3 (of 5 points)	B.3 10	(of 20 points)
	B.4 2	(of 5 points)
C. Equipment	B.5 2	(of 2 points)
(Total of 10 Points)	B.6 6	(of 6 points)
C.1 6 (of 6 points)	B.7 Yes x	No
C.2 (of 1 point)		
$\overline{}$ (of 3 points)	D. Faculty and Staff 1	Expertise
	(Total of 12 Points)	r · · · · ·
E. Economic and/or Cultural	D.1 12	(of 12 points)
Development and Impact		_ (or 12 points)
(Total of 12 Points)	F. Previous Support	Fund Awards
E.1 0 (of 2 points)	(No Points Assigned)	i did i wai ds
E.2a (or 2 points) (For S/E)	F.1 Yes x	No
	1.1 1es <u>X</u>	
or (of 10 points) E.2b (For NS/NE)		
E.20 (FOI NS/NE)		
G. Total Score: 66 (of 10	0 points)	
<u></u>		
(Note: Proposals with a total score belo	ow 70 will not be recommended for fu	inding.)
SPECIFIC BUDGETARY Reque	sted Amount: \$75,85	8
<u>-</u>	nmended Amount:	

This proposal requests funds to be used to acquire instrumentation for undergraduate environmental chemistry laboratories. The items to be purchased include a multi-probe Hydrolab for fieldwork, a UV visible spectrophotometer, a high-performance liquid chromatograph and several additional items including pH meters and balances. This equipment would supplement existing instrumentation in the current laboratory. Two of the items requested--the UV visible spectrophotometer and the HPLC--are replacements for currently functioning but older analytical instruments. The justification for replacing these items is that they are "older instruments" that apparently do not add any increased capabilities to the program. Also, there does not appear to be need for the instruments based on enrollment pressures. For these reasons the panel does not recommend funding this proposal.

		PROPOSAL NUM	IBER:	023CHE-11	
INSTITUTION: No	orthwestern Stat	e University			
PRINCIPAL INVESTI	GATOR:	Massimo Bezoari		_	
TITLE OF PROPOSAI		ion of Spectrophotometr			
	Underg	raduate Science Educati	ion and F	Research	
A. The Current Situation (Total of 10 Points) A.1 Yes x	on No	B. The Enh (Total of 56) B.1		Plan (of 5 points)	
	of 5 points) of 5 points)	B.2 B.3 B.4	15 10 2	(of 18 points) (of 20 points) (of 5 points)	
C. Equipment (Total of 10 Points)		B.5 B.6	2 0	(of 2 points) (of 6 points)	
	of 6 points) of 1 point)	B.7 Yes	X	No	
C.3 3 (o	of 3 points)	D. Faculty a (Total of 12.)		Expertise	
E. Economic and/or Cu		D.1	10	(of 12 points)	
Development and Impac (Total of 12 Points) E.1 0 (o	of 2 points)	F. Previous (No Points A		Fund Awards	
E.2a (For (c)	For S/E) of 10 points) For NS/NE)	F.1 Yes _		Nox	
G. Total Score:	63 (of 100	points)			
(Note: Proposals with a	total score below	70 will not be recommend	ded for fu	unding.)	
SPECIFIC BUDGETAI RECOMMENDATION	-	ed Amount:	\$60,79 \$	8 0	

This proposal requests funds to purchase six UV-visible spectrophotometers that will replace Spectronic 20s that are currently used in lab experiments for students in the Louisiana Scholars' College and the Department of Mathematics and Physical Sciences at NSU. The justification for purchasing the instruments, as stated in the proposal, is: "The new instruments will not only augment student skills with modern instrumentation, but will allow students more time to reflect on the analytical data and the interpretation of results, as opposed to the mundane tasks of turning wavelength dials, writing down each wavelength and the absorbance result, and so on." The specific experiments that will be performed with these instruments were not identified and there were no enrollment numbers to justify purchasing six instruments. Beyond the point of saving time, the additional capabilities provided with scanning UV-visible spectrophotometers were not adequately justified. The panel does not recommend funding for this project.

	PROPOSAL NUMBER:	024CHE-11
INSTITUTION: Nunez Commun	nity College	
PRINCIPAL INVESTIGATOR:	Stephen Waddell	
TITLE OF PROPOSAL: Enhan	ncing Chemistry in the Community Co	ollege
A. The Current Situation (Total of 10 Points)	B. The Enhancement P. (Total of 56 Points)	lan
. 4 T7	B.1 5	(of 5 points)
A.1 Yes $\frac{x}{5}$ No $\frac{x}{(\text{of 5 points})}$	B.1 3 12	(of 18 points)
A.2 (of 5 points) A.3 (of 5 points)	B.2 12 10	(of 20 points)
A.5 Of 5 points)	B.4 3	(of 5 points)
C. Equipment	B.5 <u>3</u>	(of 2 points)
(Total of 10 Points)	$\frac{2.5}{B.6}$ $\frac{2}{3}$	(of 6 points)
C.1 6 (of 6 points)	B.7 Yes x	No
C.2 (of 1 points)	B.7 105	
C.3 (of 3 points)	D. Faculty and Staff Ex (Total of 12 Points)	xpertise
E. Economic and/or Cultural	D.1 6	(of 12 points)
Development and Impact		
(Total of 12 Points)	F. Previous Support Fu	ınd Awards
E.1 0 (of 2 points)	(No Points Assigned)	
E.2a ${}$ (For \hat{S}/E)	F.1 Yes x	No
or (of 10 points)		
E.2b (For NS/NE)		
	00 points) ow 70 will not be recommended for fund	ling.)
SPECIFIC BUDGETARY Reque	ested Amount: \$164,711 nmended Amount: \$0	<i>57</i>

The Nunez Community College applicant requests funds to purchase replacement laboratory supplies that were lost during Hurricane Katrina. The requested items would permit students to perform general chemistry laboratory experiments and introduce them to chromatography. The proposal's enhancement plan lacks specific detail to enable the panel to evaluate how the requested items would be used. Describing the individual experiments and how they relate to the chemistry curriculum would have strengthened this proposal and the panel does not recommend funding for it.

		PROPOSAL NU	UMBER:	025CH	IE-11
INSTITUTION: Sc	outhern University a	and A&M College -	Baton Roug	le	
PRINCIPAL INVESTIG	GATOR:	Sylvester Burton		_	
TITLE OF PROPOSAL		nnology to Enhance	e the Conce	ptual Unders	tanding
	of Undergr	aduate Chemistry			
A.3 4 (o C. Equipment (Total of 10 Points) C.1 5 (o C.2 1 (o C.3 2 (o E. Economic and/or Cul	No f 5 points) f 5 points) f 6 points) f 1 point) f 3 points)	(Total of 5 B.1 B.2 B.3 B.4 B.5 B.6 B.7 Yes	4 15 17 4 2 5 x	(of 5 points) (of 18 points) (of 20 points) (of 5 points) (of 2 points) (of 6 points) No	s) s)
Development and Impac	t			_	
(Total of 12 Points)	£2			Fund Awards	
E.2a 9 (For (o	f 2 points) For S/E) f 10 points) For NS/NE)	F.1 Yes	s Assigned)	No	X
G. Total Score: [(of 100 point total score below 70		ended for fu	nding.)	
SPECIFIC BUDGETAR RECOMMENDATION	RY Requested		\$49,716 \$49,716	<u>.</u>	

COMMENTS: (Discuss proposal strengths and weaknesses, particularly in those sections where significant point deductions have been made. Include suggestions for resubmission. For proposals recommended for funding, include all applicable stipulations in budgets and scopes of work.)

Southern University-Baton Rouge seeks purchase of visualization software to introduce molecular modeling to students enrolled in chemistry courses. Currently the Department does not have such capabilities. The request would definitely be very beneficial for students; however, it was unclear what the immediate impact would be on the faculty and their research efforts. The major research impact stated was in area of synthetic chemistry. The proposal was very well written and its idea excellent. The proposal clearly argues for the project's strong potential, both in the curricula of the chemistry program and the anticipated impact on research activities at the institution. The panel recommends this application for full funding.

		PROPOSAL NUME	BER:	026CHE-11
INSTITUTION:	Southern Univer	rsity and A&M College - Bato	n Rouge	
PRINCIPAL INV	VESTIGATOR:	Edwin Walker		
TITLE OF PRO		inhancement of Raman Capa		
A. The Current S		B. The Enh		Plan
(Total of 10 Points		(Total of 56 l	•	
A.1 Yes $\frac{x}{x}$	No No	B.1	4	(of 5 points)
A.2 3	(of 5 points)	B.2	12	(of 18 points)
A.3 3	(of 5 points)	B.3	14	(of 20 points)
		B.4	4	(of 5 points)
C. Equipment	`	B.5	1	(of 2 points)
(Total of 10 Points		B.6	4	(of 6 points)
C.1 4	(of 6 points)	B.7 Yes	X	No
C.2 1	(of 1 point)		T 01 . 00 .	
C.3 2	(of 3 points)	D. Faculty a (Total of 12 l		Expertise
E. Economic and	l/or Cultural	D.1	8	(of 12 points)
Development and				_ (
(Total of 12 Points		F. Previous	Support !	Fund Awards
E.1 2	(of 2 points)	(No Points A		
	${}$ (For S/E)	F.1 Yes	X	No
E.2a 7	`	-		
E.2a / or	(of 10 points)			

(Note: Proposals with a total score below 70 will not be recommended for funding.)

		YEAR 1	YEAR 2
SPECIFIC BUDGETARY	Requested		
RECOMMENDATIONS:	Amount:	\$146,229	\$0
	Recommended		
	Amount:	\$0	\$0

The applicant seeks to acquire a Raman Spectrometer for use in the academic classroom and research. The proposal suggests that the Chemistry Department capabilities will be enhanced in both educational and research activities by this acquisition. The rationale is to address the need for the spectrometer in undergraduate research, but it was not clear regarding its impact on current research efforts. The lack of clear evidence to support the acquisition surely weakened the proposal. Regarding description of the instrument's potential uses in the undergraduate teaching program, the PI failed to indicate what the outcomes of the proposed activity would be. In addition, the research, both proposed and ongoing, did not provide a compelling argument for acquisition. The panel noted that some faculty are obtaining data for their research, but the proposal did not indicate where, when or how often faculty need to gather research data. A further weakness was lack of a compelling argument as to how this instrument would improve the institution's ability to attract and retain students and enhance student learning outcomes. No funding is recommended.

		PROPOSAL NUMBER:	027CHE-11
INSTITUTION:	Tulane University		
PRINCIPAL INVE	ESTIGATOR:	Joel Mague	
TITLE OF PROPO	OSAL: An Increa	ased Sensitivity Detector for the	Smart APEX X-ray
	Diffractor	meter	
A. The Current Si (Total of 10 Points)	tuation	B. The Enhancemen (Total of 56 Points)	t Plan
A.1 Yes x	No	B.1 3	(of 5 points)
A.2 4	(of 5 points)	B.2 14	${}$ (of 18 points)
A.3 4	(of 5 points)	B.3 15	(of 20 points)
		B.4 4	(of 5 points)
C. Equipment		B.5 1	(of 2 points)
(Total of 10 Points)		B.6 5	(of 6 points)
C.1 4	(of 6 points)	B.7 Yes x	No
C.2 1	(of 1 point)		_
C.3 3	(of 3 points)	D. Faculty and Staff (Total of 12 Points)	Expertise
E. Economic and/o	or Cultural	D.1 9	(of 12 points)
Development and I	mpact		_
(Total of 12 Points)		F. Previous Support	Fund Awards
E.1 2	(of 2 points)	(No Points Assigned)	
E.2a 7	(For S/E)	F.1 Yes x	No
or	(of 10 points)		_
E.2b	(For NS/NE)		
or E.2b	(of 10 points)	1.1 1cs <u>X</u>	
G. Total Score:	76 (of 100 p	oints)	
(Note: Proposals w	with a total score below	70 will not be recommended for fo	unding.)
SPECIFIC BUDGI	ETARY Requested	d Amount: \$89,50	00 (if additional funds
RECOMMENDAT	TIONS: Recomme	ended Amount: \$89.50	00 become available)

The proposal is recommended for full funding if additional funds become available. The Tulane University PI wants to upgrade the current capabilities of an x-ray diffractometer. The upgrade would extend the capabilities of researchers at the institution and their collaborators elsewhere to probe and determine those structures that they currently cannot. The upgrade would support many research activities and close a gap in this burgeoning research department. The research program supported by this acquisition is very interesting and seems to have excellent potential. Reviewers, however, did note that the impact of the acquisition on the undergraduate program is not as compelling as it could have been.

PROPOSAL NUMBER:	028CHE-11
у	
Igor Rubtsov	_
sition of a Laser System for State-o	f-the-Art Structural
es	
B. The Enhancement (Total of 56 Points) B.1 5	Plan (of 5 points)
B.2 16 B.3 17 B.4 5	(of 18 points) (of 20 points) (of 5 points)
B.6 5	(of 2 points) (of 6 points)
	No Expertise
(Total of 12 Points)	•
D.1 <u>11</u>	(of 12 points)
F. Previous Support (No Points Assigned)	Fund Awards
F.1 Yes	Nox
0 points)	
ow 70 will not be recommended for fu	nding.)
sted Amount: \$176,730	
	Igor Rubtsov Sition of a Laser System for State-ors B. The Enhancement (Total of 56 Points) B.1 5 B.2 16 B.3 17 B.4 5 B.5 2 B.6 5 B.7 Yes x D. Faculty and Staff (Total of 12 Points) D.1 11 F. Previous Support (No Points Assigned) F.1 Yes O points) Ow 70 will not be recommended for further states of the

COMMENTS: (Discuss proposal strengths and weaknesses, particularly in those sections where significant point deductions have been made. Include suggestions for resubmission. For proposals recommended for funding, include all applicable stipulations in budgets and scopes of work.)

The proposal seeks funding for the acquisition of femtosecond (fs) pulsed laser that will be added to current laser capabilities at Tulane University. The fs pulsed laser will be used to further develop the technique of and data acquisition for using 2D spectroscopy to probe molecular interactions and structures. The proposal's argument that the groundwork has been laid for a strong collaborative effort between multiple users, both inside and outside of the State, is convincing. The enhancement plan demonstrates clearly how the equipment would impact and grow current research efforts at the University and the educational activities of the students involved. The requested equipment is a pivotal expansion of the ongoing excellent research program. The project showed potential for developing a commercial-based instrument. The panel recommends full funding.

	PROPOSAL NUMBER:	029CHE-11
INSTITUTION: University of Louis	siana at Lafayette	
PRINCIPAL INVESTIGATOR:	R. Devesh Misra	<u></u>
	al Analysis System to Enhance Pol ng and Research	ymer Science
A. The Current Situation (Total of 10 Points)	B. The Enhancem (Total of 56 Points)	
A.1 Yes x No	B.1 4	(of 5 points)
A.2 (of 5 points)	B.2 16	(of 18 points)
A.3 (of 5 points)	B.3 17	(of 20 points)
	B.4 4	(of 5 points)
C. Equipment	B.5 2	(of 2 points)
(Total of 10 Points)	B.6 4	(of 6 points)
C.1 3 (of 6 points)	B.7 Yes ${}$ x	No
$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$		
C.3 (of 3 points)	D. Faculty and Sta (Total of 12 Points)	<u> </u>
E. Economic and/or Cultural	D.1 8	(of 12 points)
Development and Impact		<u> </u>
(Total of 12 Points)	F. Previous Suppo	ort Fund Awards
E.1 2 (of 2 points)	(No Points Assigned	
E.2a ${}$ (For S/E)	F.1 Yes x	No
or (of 10 points)		
E.2b (For NS/NE)		
G. Total Score: 80 (of 100	points)	

(Note: Proposals with a total score below 70 will not be recommended for funding.)

SPECIFIC BUDGETARY Requested Amount: \$167,675 (if additional funds **RECOMMENDATIONS: Recommended Amount:** \$167,675 become available)

COMMENTS:

This proposal requests funding for a thermal analysis system to support faculty research efforts, collaborative and individual, and provide teaching and training opportunities for students in materials characterization. This characterization technique is not currently used at UL Lafayette, and the collaborative research programs of chemistry, chemical engineering and biology would see immediate benefits to research activities. Broad objectives were described and the potential impact of the acquisition was stated in the enhancement plan. This acquisition could be used to support student training in a number of courses, directly and indirectly, and is appropriate for growing the programs at the institution. However, the applicants failed to describe adequately how the acquisition would be shared other than through the training process, its location, and a user fee. Very little emphasis was placed on the current potential of the Co-PIs. The panel recommends supporting the acquisition of the TGA if additional funds become available, but the PIs ahould submit a more recent quote for the system if and when funding for this project is awarded.

		PROPOSAL NUM	IBER:	030CHE-11
INSTITUTION: Unive	ersity of Louisia	ına at Lafayette		
PRINCIPAL INVESTIGA	TOR:	Richard Perkins		
TITLE OF PROPOSAL:	Potentios	tat/Galvanostat for Re	search a	nd Teaching
A. The Current Situation		B. The Enh		t Plan
(Total of 10 Points)		(Total of 56	,	(0 -
A.1 Yes $\frac{x}{\sqrt{5.5}}$		B.1	3	(of 5 points)
	points)	B.2	13	(of 18 points)
A.3 $\boxed{3}$ (of 5	points)	B.3	14	(of 20 points)
		B.4	3	(of 5 points)
C. Equipment		B.5	1	(of 2 points)
(Total of 10 Points)		B.6	5	(of 6 points)
	points)	B.7 Yes	X	No
	point)			
$C.3 \qquad \boxed{2} \qquad \text{(of 3)}$	points)	D. Faculty		Expertise
		(Total of 12	Points)	
E. Economic and/or Cultur	ral	D.1	8	(of 12 points)
Development and Impact		_		
(Total of 12 Points)		F. Previous	Support	Fund Awards
E.1 1 (of 2	points)	(No Points A	Assigned)	
E.2a $\overline{7}$ (For	S/E)	F.1 Yes	X	No
or (of 1)	0 points)			
E.2b (For	NS/NE)			
·	•			
G. Total Score:	8 (of 100 po	oints)		
	 `	•		
(Note: Proposals with a tot	al score below 7	0 will not be recommen	ded for fi	unding.)
(10tc. 110posais with a to	ai score below /	o wan not be recommen	ucu IVI II	unumg.)
SPECIFIC BUDGETARY	Requested	A mount.	\$12,94	17
	-	_		
RECOMMENDATIONS:	Recommen	nded Amount:	9	80

COMMENTS: (Discuss proposal strengths and weaknesses, particularly in those sections where significant point deductions have been made. Include suggestions for resubmission. For proposals recommended for funding, include all applicable stipulations in budgets and scopes of work.)

The panel found this proposal to be poorly constructed. The applicant did not provide evidence of the impact of this acquisition beyond the research programs of "two faculty of our department." The enhancement plan failed to provide adequate justification for the proposed activities and their impact on the curricula or students beyond the research programs of the faculty involved. The panel does not recommend this proposal for funding.

INSTITUTION: University of Louisiana at Lafay	vette	
Oniversity of Education at Editary		
PRINCIPAL INVESTIGATOR: Wu Xu		_
TITLE OF PROPOSAL: Enhancement of Spe	ectroscopy and Macrom	olecule
Characterization Tecl	hniques in Chemistry La	aboratories at
University of Louisian	na at Lafayette	
	·	
A. The Current Situation	B. The Enhancement	Plan
(Total of 10 Points)	(Total of 56 Points)	
A.1 Yes <u>x</u> No	B.1 4	of 5 points)
A.2 (of 5 points)	B.2 15	(of 18 points)
A.3	B.3 16	(of 20 points)
	B.4 4	(of 5 points)
C. Equipment	B.5 1	(of 2 points)
(Total of 10 Points)	B.6 5	(of 6 points)
C.1 5 (of 6 points)	B.7 Yes x	No
C.2 (of 1 point)		
$\overline{2}$ (of 3 points)	D. Faculty and Staff E	Expertise
	(Total of 12 Points)	
E. Economic and/or Cultural	D.1 10	(of 12 points)
Development and Impact		_
(Total of 12 Points)	F. Previous Support F	Fund Awards
E.1 2 (of 2 points)	(No Points Assigned)	
E.2a ${}$ (For \hat{S}/E)	F.1 Yes x	No
or (of 10 points)		
E.2b (For NS/NE)		
G. Total Score: 81 (of 100 points)		
(Note: Proposals with a total score below 70 will not be	e recommended for fundi	ng.)
(= -opositio a total seole selon /o militor se		

The panel recommends that the request for the acquisition of a UV-visible spectrophotometer to support undergraduate teaching and research be fully funded if additional funds become available. The PI's rationale is contained in the well-written enhancement plan and the impact on teaching and research section. The instrumentation would prove beneficial throughout the chemistry program curricula. The plan described the objectives, provided evidence of impacts, and suggested measureable outcomes for this project. The panel, however, did not agree that the potential loss of ACS accreditation should be the primary rationale for obtaining the spectrophotometer. The need delineated throughout the proposal and use of the instrumentation and low temperature freezer as fundamental tools for teaching basic chemical phenomena and training in the requisite skills of chemistry for the student population should have been the primary rationales. The reviewers noted that the PI has developed a number of collaborations internally and externally that should provide additional opportunities for the PI, the Department and especially the students at UL Lafayette.

\$38,261 (if additional funds

\$38,261 become available)

Requested Amount:

Recommended Amount:

SPECIFIC BUDGETARY

RECOMMENDATIONS:

]	PROPOSAL NUMBER:	032CI	HE-11	
INSTITUTION: University of L	ouisiana at Monroe			
PRINCIPAL INVESTIGATOR:	Khalid El Sayed			
TITLE OF PROPOSAL: A Documentation System for Enhancement of ULM				
Medicinal Chemistry Research				
A. The Current Situation (Total of 10 Points)	B. The Enl (Total of 56	nancement Plan		
A.1 Yes x No	B.1	·	points)	
A.2 (of 5 points)	B.2		8 points)	
A.3 (of 5 points)	B.3		0 points)	
	B.4		points)	
C. Equipment	B.5		points)	
(Total of 10 Points)	B.6		points)	
C.1 4 (of 6 points)	B.7 Yes	x No	О	
C.2 (of 1 point)				
C.3 (of 3 points)		D. Faculty and Staff Expertise		
	*	(Total of 12 Points)		
E. Economic and/or Cultural	D.1	9 (of 1	2 points)	
Development and Impact	E Duaviana	Cumpart Fund A	wanda	
(Total of 12 Points) E.1 (of 2 points)		F. Previous Support Fund Awards (No Points Assigned)		
E.1 (of 2 points) E.2a (For S/E)	<u> </u>		[0	
or $\frac{7}{(\text{For S/E})}$	r.i ies _	x N		
E.2b (For NS/NE)				
(1 of 145/14L)				
G. Total Score: 69 (of 100 points)				
(Note: Proposals with a total score below 70 will not be recommended for funding.)				
SPECIFIC BUDGETARY Requested Amount: \$20,240 RECOMMENDATIONS: Recommended Amount: \$0				

The panel does not recommend funding this project in its current form. Although it is well written, the proposal's enhancement plan did not provide clear evidence regarding the applicability of the acquisition to the research program. Likewise, the applicant failed to adequately provide clear evidence of how the acquisition would be used to support and its overall impact on research activities in lieu of the excellent research instrumentation currently available. This vital link, if it had been described in detail, would have greatly improved the proposal.

	PROPOSAL NUMBER:	033CHE-11
INSTITUTION: University of	of Louisiana at Monroe	
PRINCIPAL INVESTIGATOR:	Khalid El Sayed	<u>_</u>
TITLE OF PROPOSAL:	Jltra-Performance Liquid Chromatograph	ny for the
	Enhancement of Analytical Capability of	-
-	Pharmacy	ozin conege or
<u>-</u>	Патпасу	
A. The Current Situation	B. The Enhancement	Plan
(Total of 10 Points)	(Total of 56 Points)	(5.7)
A.1 Yes $\frac{x}{\sqrt{55}}$ No	B.1 4	$\frac{\text{(of 5 points)}}{\text{(f.10)}}$
A.2 (of 5 points) A.3 (of 5 points)		(of 18 points)
A.3 (of 5 points)	B.3 B.4	(of 20 points)
C Equipment		(of 5 points)
C. Equipment	B.5 B.6 3	(of 2 points)
(Total of 10 Points) C.1 4 (of 6 points)		(of 6 points) No
C.1 (of 6 points) C.2 (of 1 point)	B.7 Yes <u>x</u>	
C.2 (of 1 point) C.3 (of 3 points)	D. Faculty and Staff	Exmontico
<u>Z</u> (or 3 points)	(Total of 12 Points)	Experuse
E. Economic and/or Cultural	D.1 9	(of 12 points)
Development and Impact	D.1 9	_ (Of 12 points)
(Total of 12 Points)	F. Previous Support	Fund Awards
E.1 (of 2 points)		ruiu Awarus
E.2a 6 (For S/E)	F.1 Yes x	No
or $1000000000000000000000000000000000000$		
E.2b (For NS/NE		
	,	
G. Total Score: 63	(of 100 points)	
(Note: Proposals with a total scor	re below 70 will not be recommended for fu	ınding.)
SPECIFIC BUDGETARY	Requested Amount: \$53,62	0
RECOMMENDATIONS: B	Recommended Amount:	0

COMMENTS: (Discuss proposal strengths and weaknesses, particularly in those sections where significant point deductions have been made. Include suggestions for resubmission. For proposals recommended for funding, include all applicable stipulations in budgets and scopes of work.)

This proposal is not recommended for funding as it is currently written. The panel acknowledges that the project has great potential, but the proposal failed to provide a clear rationale regarding how this acquisition would impact the research program. The faculty and Department involved in this project have access to an amazing array of equipment but they did not provide a clear description of how the "hyphenated" techniques of UPLC-NMR and UPLC-MS/MS would be carried out. The critical failure to establish a clear rationale with equipment design detracted immensely from a relatively strong proposal.

		PROPOSAL NUMI	BER:	034CHE-11
INSTITUTION:	University of N	ew Orleans		
PRINCIPAL INVI	ESTIGATOR:	Pierre Ferdinand Poud	eu	_
TITLE OF PROP	OSAL: Acqu	isition of a Spark Plasma Si	ntering	System for
	Nand	ocomposite Research and Ed	ducation	า
A. The Current Si		B. The Enha		t Plan
(Total of 10 Points)		(Total of 56 P	oints)	
A.1 Yes x	No	B.1	4	(of 5 points)
A.2 4	(of 5 points)	B.2	17	(of 18 points)
A.3 5	(of 5 points)	B.3	17	(of 20 points)
		B.4	3	(of 5 points)
C. Equipment		B.5	2	(of 2 points)
(Total of 10 Points)		B.6	5	of 6 points)
C.1 5	(of 6 points)	B.7 Yes	X	No
C.2 1	(of 1 point)			
C.3 3	(of 3 points)	D. Faculty an	nd Staff	Expertise
		(Total of 12 P	oints)	
E. Economic and/o	or Cultural	D.1	10	(of 12 points)
Development and I	Impact	_		
(Total of 12 Points)	_	F. Previous S	Support	Fund Awards
E.1 2	(of 2 points)	(No Points As	signed)	
E.2a 8	(For S/E)	F.1 Yes	X	No
or	(of 10 points)			
E.2b	(For NS/NE)			

(Note: Proposals with a total score below 70 will not be recommended for funding.)

SPECIFIC BUDGETARYRequested Amount:\$307,042RECOMMENDATIONS:Recommended Amount:\$293,641

This proposal is recommended for partial funding of \$293,641. The team at the University of New Orleans requests funds for a Spark Plasma Sintering device for preparing materials for the nanocomposites materials science program. The panel found the project to be of high merit and the equipment requested essential for the program as described. All aspects of the project--rationale, impact, enhancement plan--were well described. The acquisition of this technology will provide UNO researchers a unique opportunity to forge ahead in the area of nanocomposites materials synthesis, fabrication and characterization, and ultimately the application and use of the materials. The proposal provided the necessary benchmarks by which to judge the outcomes of this project. Given the research described and the collaborations envisioned, this project should prove to be a wise investment in promoting research in the field of materials, especially nanocomposites. The panel recommends that the partial funding be allocated at the discretion of the PI but suggests purchasing only some of the consumables needed for the project's initial startup.

		PROPOSAL NUMBER:	035CHE-11
INSTITUTION:	University of	f New Orleans	
PRINCIPAL INVI	ESTIGATOR:	Anantha Sankaranarayanan	
TITLE OF PROPO		icroelectrode Array (MEA) System in D	rug Design and
	<u>D</u> e	evelopment	
A. The Current Si	tuation	B. The Enhancement	Plan
(Total of 10 Points)		(Total of 56 Points)	
A.1 Yes	No	B.1	(of 5 points)
A.2	(of 5 points)	B.2	(of 18 points)
A.3	(of 5 points)	B.3	(of 20 points)
		B.4	(of 5 points)
C. Equipment		B.5	(of 2 points)
(Total of 10 Points)		B.6	(of 6 points)
C.1	(of 6 points)	B.7 Yes	No
C.2	(of 1 point)		
C.3	(of 3 points)	D. Faculty and Staff	Expertise
	` ` '	(Total of 12 Points)	•
E. Economic and/o	or Cultural	D.1	(of 12 points)
Development and I			_ ` ' '
(Total of 12 Points)	F	F. Previous Support	Fund Awards
È.1	(of 2 points)	(No Points Assigned)	
E.2a	${}$ (For S/E)	F.1 Yes	No
or	of 10 points		
E.2b	(For NS/NE)		
	(1 01 1 (2/1 (2)		
G. Total Score:	no score (c	of 100 points)	
(Note: Proposals w	vith a total score	e below 70 will not be recommended for fu	unding.)
SPECIFIC BUDG	ETARY R	equested Amount: \$61,95	9
RECOMMENDAT	TIONS: Re	ecommended Amount:	0

COMMENTS: (Discuss proposal strengths and weaknesses, particularly in those sections where significant point deductions have been made. Include suggestions for resubmission. For proposals recommended for funding, include all applicable stipulations in budgets and scopes of work.)

The panel did not rank this proposal since its primary subject matter is not sufficiently related to chemistry. However, the consensus of the panel is that this proposal has merit and should be submitted when Health and Medical Sciences is eligible for potential support. The drug testing research program would benefit from the addition of this instrumentation, but only in the drug testing response phase and not directly in the drug design and synthesis work. The group should also consider submitting a proposal to NIH based on the research touted and the drug viability potential.

		PROPOSAL NUMBER:	036CHE-11
INSTITUTION:	University of New	v Orleans	
PRINCIPAL INVE	STIGATOR:	Matthew Tarr	_
TITLE OF PROPO	SAL: Multidis	sciplinary Facility for Nanoparticle Si	ze and Zeta Potential
		cterization: Dynamic Light Scattering	
A. The Current Sit (Total of 10 Points)	uation	B. The Enhancement P (Total of 56 Points)	lan
A.1 Yes x	No	B.1 5	(of 5 points)
A.2 5	(of 5 points)	B.2 16	(of 18 points)
A.3 5	(of 5 points)	B.3 18	(of 20 points)
	<u></u>	B.4 5	(of 5 points)
C. Equipment		B.5 2	(of 2 points)
(Total of 10 Points)		B.6 5	(of 6 points)
C.1 5	(of 6 points)	B.7 Yes x	No
C.2 1	of 1 point)		
C.3 3	(of 3 points)	D. Faculty and Staff Ex	pertise
	_	(Total of 12 Points)	
E. Economic and/or	r Cultural	D.1 11	(of 12 points)
Development and In	npact		_ `
(Total of 12 Points)	•	F. Previous Support Fu	ınd Awards
È.1 2	(of 2 points)	(No Points Assigned)	
E.2a 6	- (For S/E)	F.1 Yes x	No
or	of 10 points)		
E.2b	(For NS/NE)		
G. Total Score:	89 (of 100	points)	
(Note: Proposals w	ith a total score belo	w 70 will not be recommended for fund	ling.)
SPECIFIC BUDGE	ETARY Reques	ted Amount: \$45,000)
RECOMMENDAT	IONS: Recom	mended Amount: \$45,000	<u> </u>

COMMENTS:

The PI from UNO wishes to acquire a dynamic light scattering instrument to facilitate nanomaterial characterization, research and teaching. This proposal is very well written and describes the activities that address the project's goals and objectives. The enhancement plan clearly delineates how the stated objectives--research productivity, acquisition of federal and private sector funding, and teaching and training--will be carried out and the benchmarks by which to measure success of the proposed activities. The chemistry associated with each project is clearly discussed and the future potential addressed. The utilization of the instrumentation to enhance the projects outlined is also very clearly stated. In the unanimous opinion of the panel, this proposal is excellent, with very little or no significant detractions. The proposal is recommended for full funding.

APPENDIX A

SUMMARY OF PROPOSALS SUBMITTED

Proposals Submitted to the Traditional Enhancement Program - Chemistry for the FY 2010-11 Review Cycle

				Equipment/			Amo	ount Reques	sted
Proposal	D	*	Duration	Non	New/	D			
Number	PI Name	Institution	(Years)	Equipment	Continuation	Project Title	Year 1	Year 2	Total
						Enhanced Capabilities in NMR			
001CHF-11	Blakeney, Ernest	Centenary College	1	E	l _N	Spectroscopy at Centenary College	\$213,863.00	\$0.00	\$213,863.00
OUTCITE 11	blakeney, Erriese	Louisiana State	<u>'</u>	_	1	spectroscopy at centerary contege	7213,003.00	\$0.00	\$213,003.00
		University And A&M							
		College - Agricultural				Enhancing the Food Science			
002CHE-11	King. Joan	Center	1	E	N	Carbohydrate Laboratory	\$113,362.00	\$0.00	\$113,362.00
	3,* * * *	Louisiana State				Acquisition of characterization and	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, , , , ,	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
		University And A&M				processing equipment for			
		College - Agricultural				nanotechnology and bioenergy			
003CHE-11	Sabliov, Cristina	Center	1	E	N	applications	\$196,235.00	\$0.00	\$196,235.00
		Louisiana State				Advanced Quartz Crystal Microbalance			
		University And A&M				with Dissipation (QCM-D) Monitoring for			
		College - Agricultural				Surface Chemistry Research and			
004CHE-11	Wu,Qinglin	Center	1	E	N	Development	\$171,390.00	\$0.00	\$171,390.00
		Louisiana State							
		University And A&M				Enhancement of the LSU Chemistry X-ray			
005CHE-11	Chan, Julia	College - Baton Rouge	1	E	N	Crystallography Facility	\$245,610.00	\$0.00	\$245,610.00
						Acquisition of an Advanced Rheometer to			
		Louisiana State				Support Teaching and Research in the			
		University And A&M				Use of Bio-Wastes in Construction			
006CHE-11	Elseifi,Mostafa	College - Baton Rouge	1	E	N	Applications	\$79,705.00	\$0.00	\$79,705.00
		Louisiana State							
		University And A&M				Nanoflow Liquid Chromatography System			
007CHE-11	Murray,Kermit	College - Baton Rouge	1	E	N	for Macromolecular Analysis	\$106,119.00	\$0.00	\$106,119.00
						Shared Facilities for Thin-Film Materials			
		Louisiana State				and Devices Fabrication and			
		University And A&M		_	l	Characterization: Vacuum Deposition	A	40.00	
008CHE-11	Nesterov, Evgueni	College - Baton Rouge	1	E	N	System and Near-Infrared Spectrometer	\$177,704.00	\$0.00	\$177,704.00
		Louisiana State							
0005115 44		University And A&M	_	_			£ 40 000 00	¢0.00	£ 40 000 00
009CHE-11	Roy, Amitava	College - Baton Rouge	1	E	N	Synchrotron Small Angle X-Ray Scattering	\$40,000.00	\$0.00	\$40,000.00
		Louisiana State				Enhancement of Lithography-Based			
0100115 44	Canar Chavan	University And A&M	4	_	l,	Processing Tools for Lab-on-a-Chip	C224 4EE 00	¢0.00	C224 4EE 00
UTUCHE-11	Soper,Steven	College - Baton Rouge	1	E	N	Devices in Chemistry and Biology	\$226,455.00	\$0.00	\$226,455.00
		Louisiana State			[600 MJ NAD for Chamistry 6 Bi-li			
0116115 44	Chamley Coorge	University And A&M	4	-	l.	600 MHz NMR for Chemistry & Biological	¢304 E00 00	¢0.00	¢204 E00 00
UTTCHE-11	Stanley, George	College - Baton Rouge	1	E	N	Chemistry Research	\$301,500.00	\$0.00	\$301,500.00

				Equipment/			Amo	ount Reque	sted
Proposal Number	PI Name	Institution	Duration (Years)	Non Equipment	New/ Continuation	Project Title	Year l	Year 2	Total
012CHE-11	Zhang, Donghui	Louisiana State University And A&M College - Baton Rouge	1	E	N	Acquisition of Shared, Multi-User Instrumentation Resources: A Suite of Tools for Chemical and Materials Characterizations	\$297,000.00	\$0.00	\$297,000.00
013CHE-11	Salvatore,Brian	Louisiana State University And A&M College - Shreveport	1	E	N	Enhancement of CHemical Synthesis Laboratory Facilities at LSUS	\$127,581.00	\$0.00	\$127,581.00
014CHE-11	Cox,Marilyn	Louisiana Tech University	1	E	N	NMR Spectrometer for Undergraduate Organic Chemistry Labs	\$100,000.00	\$0.00	\$100,000.00
015CHE-11	Eklund,Sven	Louisiana Tech University	1	E	N	Industry Experience for Undergraduates Using Raman Spectroscopy Shared Memory Computational	\$76,287.00	\$0.00	\$76,287.00
016CHE-11	Ramachandran,Bala	Louisiana Tech University	1	E	N	Infrastructure for Computational Chemistry and Materials Science Education	\$68,599.00	\$0.00	\$68,599.00
017CHE-11	Koplitz,Lynn	Loyola University New Orleans	1	E	N	Multiphase Analysis and Solid Structure Determination by Powder X-Ray Diffraction	\$90,648.00	\$0.00	\$90,648.00
018CHE-11	Spence, Thomas	Loyola University New Orleans	1	E	N	Liquid Chromatograph/Mass Spectrometer to Support Collaborative Industrial Research at Loyola University	\$342,811.00	\$0.00	\$342,811.00
019CHE-11	Darbeau,Ron	McNeese State University	2	E	N	Acquisition of a 300 MHz Nuclear Magnetic Resonance Spectrometer for Instruction and Research	\$218,200.00	\$0.00	\$218,200.00
020CHE-11	Sneddon, Joseph	McNeese State University	1	E	N	INCORPORATION OF MICROWAVE TECHNOLOGY INTO THE UNDERGRADUATE ANALYTICAL AND ORGANIC CHEMISTRY LABORATORIES	\$25,425.00	\$0.00	\$25,425.00
021CHE-11	Baker, Ronald	Nicholls State University	1	E	N	Acquisition of an FTIR Spectrometer for Chemistry Instruction	\$22,500.00	\$0.00	\$22,500.00
022CHE-11	Boopathy,Raj	Nicholls State University	1	E	N	Upgrading Chemistry Instructional Equipment in the Environmental Chemistry Laboratory	\$75,858.00	\$0.00	\$75,858.00
023CHE-11	Bezoari, Massimo	Northwestern State University	1	E	N	Acquisition of Spectrophotometric Instrumentation for Undergraduate Science Education and Research	\$60,798.00	\$0.00	\$60,798.00
024CHE-11	Waddell,Stephen	Nunez Community College	1	E	N	Enhancing Chemistry in the Community College	\$164,711.00	\$0.00	\$164,711.00
025CHE-11	Burton,Sylvester	Southern University and A&M College at Baton Rouge Southern University	1	E	N	Using Technology to Enhance the Conceptual Understanding of Undergraduate Chemistry The Enhancement of Raman capabilities	\$49,716.00	\$0.00	\$49,716.00
026CHE-11	Walker,Edwin	and A&M College at Baton Rouge	2	E	N	in the Chemical Sciences for Research and Teaching at Southern University	\$146,229.00	\$0.00	\$146,229.00

				Equipment/			Amo	ount Reques	sted
Proposal	DI Massa	T	Duration	Non	New/	D., 4 Mid -	Year l	37 0	m-4-1
Number	PI Name	Institution	(Years)	Equipment	Continuation		rear i	Year 2	Total
027CHE-11	Mague leel	Tulane University	1	_	N.	An Increased Sensitivity Detector for the Smart APEX X-ray Diffractometer	\$89,500.00	\$0.00	\$89,500.00
027CIIL-II	mague, Juei	lutarie University	<u>Į</u>	<u> </u>	IN .	Acquisition of a Laser System for State-of		30.00	\$69,500.00
028CHF-11	Rubtsov, Igor	Tulane University	1	F	l _N	the-Art Structural Studies	\$176,730.00	\$0.00	\$176,730.00
OZOCIIL II	Nubt304,1g01	lutaric offiversity	<u> </u>	-	111	The Art Structural Studies	\$170,730.00	70.00	\$170,730.00
		University of				Thermal Analysis System to Enhance			
029CHF-11	Misra, R. Devesh	Louisiana at Lafayette	1	F	l _N	Polymer Science Teaching and Research	\$167,675.00	\$0.00	\$167,675.00
OZYCIIZ II	misra,it. Devesii	Louisiana at Larayette	•	_	1	Totymer selence reaching and research	\$107,073.00	\$0.00	\$107,073.00
		University of				Potentiostat/galvanostat for research			
030CHE-11	Perkins, Richard	Louisiana at Lafayette	1	E	l _N	and teaching	\$12,947.00	\$0.00	\$12,947.00
-			-			Enhancement of Spectroscopy and	, , _ , , , , , , , , , , , , , , , , ,	40.00	+ 1 = ,1 11 10 0
						Macromolecule Characterization			
		University of				Techniques in Chemistry Laboratories at			
031CHE-11	Xu,Wu	Louisiana at Lafayette	1	E	N	University of Louisiana at Lafayette	\$38,261.00	\$0.00	\$38,261.00
						A Documentation System for			
		University of				Enhancement of ULM Medicinal			
032CHE-11	El Sayed,Khalid	Louisiana at Monroe	1	E	N	Chemistry Research	\$20,240.00	\$0.00	\$20,240.00
						Utra-Performance Liquid			
						Chromatography for the Enhancement of			
		University of				Analytical Capability of ULM College of			
033CHE-11	El Sayed,Khalid	Louisiana at Monroe	1	E	N	Pharmacy	\$53,620.00	\$0.00	\$53,620.00
						Acquisition of a Spark Plasma Sintering			
	Poudeu,Pierre	University of New				System for Nanocomposite Research and			
	Ferdinand	Orleans	1	E	N	Education	\$307,042.00	\$0.00	\$307,042.00
	Sankaranarayanan,	University of New				Microelectrode Array (MEA) System in			
035CHE-11	Anantha	Orleans	1	E	N	Drug Design and Development	\$61,959.00	\$0.00	\$61,959.00
		L				Multidisciplinary Facility for Nanoparticle			
		University of New		_	l	Size and Zeta Potential Characterization:	4.5 000		
036CHE-11	Tarr,Matthew	Orleans	1	E	N .	Dynamic Light Scattering Instrument	\$45,000.00	\$0.00	\$45,000.00

^{*} The Enhancement Program RFP restricts requests for 2nd-year funding to no more than \$50,000

Total Number of Proposals submitted	36
Total Money Requested for First Year	\$4,711,280.00
Total Money Requested for Second Year	\$0.00
Total Money Requested	\$4,711,280.00

APPENDIX B

Proposal Evaluation Forms

Form 1: For Purchase of Instructional and Research Equipment

Form 2: For Other Than Equipment Purchases

	Proposal Number:		Principal Investigator:Page 1 or
	BOAR	D OF REG	ENTS SUPPORT FUND ENHANCEMENT PROGRAM, FISCAL YEAR 2010-11
	RATIN		FOR TRADITIONAL AND UNDERGRADUATE ENHANCEMENT PROPOSALS CHASE OF INSTRUCTIONAL AND RESEARCH EQUIPMENT
that cons	panel. Review this form an sideration. Guidelines should	d the progran ld not be inter	n form should represent the consensus of the expert members of the review panel and, as such, must reflect the final decisions of a guidelines prior to reading the proposal. The higher the score, the more clearly the proposal satisfies the criterion under preted to exclude from eligibility departments and/or units engaged solely in instruction. Use the white space provided to explain low scores. Attach additional pages, as necessary.
A.	THE CURRENT SI	TUATION	Total of 10 points
	YESNO	_ A.1	Has the applicant adequately described the institution and unit(s)/department(s) that will benefit from the proposed project, especially in terms of mission, faculty, students, and relevant institutional or departmental resources?
	of 5 pts.	A.2	To what extent will the proposed project enhance the affected department(s) or unit(s)?
	of 5 pts.	A.3	To what extent will the project complement and improve upon existing resources of the department(s) or unit(s)?
СО	MMENTS:		
В.	THE ENHANCEME	ENT PLAN	ITotal of 56 points
	of 5 pts.	B.1	Are the goals and objectives clearly stated? Can the objectives be completed within the timeframe detailed in the proposal?
	of 18 pts.	B.2	Does the work plan sufficiently describe the activities that will be undertaken to achieve the goals and objectives of the proposal with responsible individuals listed for each activity, a schedule of activities with benchmarks to be accomplished, and a description detailing how each objective will be evaluated?
	of 20 pts.	B.3	To what extent will the proposed project catapult the department(s) or unit(s) into attaining a high level of regional, national, or international eminenceor maintaining a current high level of eminencecommensurate with degree offerings and/or functions?

of 3

teaching and improve faculty pedagogical practices within the context of current thinking on reform of undergraduate education and teacher preparation, specific to field(s) or discipline(s) of the proposed project?

No Points Given, but this is a required component.

B.7 Does the proposal indicate how the Board of Regents or other entity will determine whether or not the project has been a success and the degree to which it has achieved its goals?

undergraduate education and/or teacher preparation encouraged?

To what extent will the proposed project have an impact on the variety and quality of curricular offerings and instructional methods within the affected department(s) or unit(s)? Appropriate to current thinking in the specific field(s) or discipline(s) of the proposed project, is reform of

To what extent will the proposed project enhance the ability of the department(s) or unit(s) to attract

and/or retain students of high quality, particularly high quality students from Louisiana?

To what extent will the project contribute to improving the quality and effectiveness of faculty

___ of 5 pts.

_ of 2 pts.

_of 6 pts.

B.4

B.5

B.6

	Proposal Number:		Principal Investigator:	
CC	OMMENTS:		Page	2 of 3
C.	EQUIPMENTTota	al of 10 p	oints	
	of 6 pts.	C.1	To what extent has the proposal established a relationship between the enhancement plan and the items of equipment requested? Is the equipment well-justified? Will it significantly enhance the existing technological capability of the department? Does it reflect current and projected trends in technology?	
	of 1 pt.	C.2	Has there been a thorough survey of the current equipment inventory and does the proposal plan to make full use of it?	
	of 3 pts.	C.3	To what extent does the proposal present a reasonable plan to ensure a maximum usable lifetime for the equipment? Are housing and maintenance arrangements for equipment adequate?	
CC	OMMENTS:			
D.	FACULTY AND S	TAFF EX	XPERTISETotal of 12 points	
	of 12 pts	D.1	Are the faculty and support personnel appropriately qualified to implement this project? If special training will be required for faculty and/or other personnel, has an appropriate plan been developed?	
CC	OMMENTS:			
E.	ECONOMIC AND	OR CUL	TURAL DEVELOPMENT AND IMPACTTotal of 12 points	
	of 2 pts.	E.1	To what extent will the project assist in establishing a new relationship, or strengthen an existing relationship, with one or more industrial/institutional sponsors (e.g., private business, trade organization, professional organization, non-profit or community organization, another university or consortium of universities, federal government agency)?	,
	NOTE TO REVIEV		Depending on the discipline of the submitting department or unit, provide rating points for either E.2a OR E.2b:	
	of 10 pts.	E.2a	For science/engineering proposals only: To what extent will the project assist the submitting department(s)/unit(s) in promoting or enhancing the economic development of the State of Louisiana?	
		E.2b	For non-science/non-engineering proposals only: To what extent will the project contribute to the academic and/or cultural resources of the State of Louisiana?	

COMMENTS:

Proposal Number:		
	Page	3 of 3
F. PREVIOUS SUPPORT FUN	ID AWARDSNo points assigned	
YES NO G.1	If the Project Director or Co-Project Director has received previous Support Fund support, has it been adequately documented?	
COMMENTS:		
G. TOTAL SCORE (NOTE: Pr	roposals with a total score below 70 will not be recommended for funding.)	
of 100 points		
	SPECIFIC BUDGETARY RECOMMENDATIONS	
Requested Amount \$	Recommended Amount \$	
COMMENTS:		
to disclose, divulge, publish, file patent app	mation, documentation and material of any kind (hereinafter referred to as "Material") included in this proposal; I further agree no plication on, claim ownership of, exploit or make any other use whatsoever of said "Material" without the written permission of the nowledge, no conflict of interest is created as a result of my reviewing this proposal.	
Reviewer's Name and Institution:		
Reviewer's Signature:	Date:	
	(Form 6.11, rev	v 2010

Proposal Number:		Principal Investigator:Page 1 of 3
RATING FO	ORM FOR	S SUPPORT FUND ENHANCEMENT PROGRAM, FISCAL YEAR 2010-11 TRADITIONAL AND UNDERGRADUATE ENHANCEMENT PROPOSALS HAN EQUIPMENT PURCHASES (e.g., Colloquia, Curricular Revisions, etc.)
that panel. Review this form and the consideration. Guidelines should not	program guide be interpreted s given low sc	should represent the consensus of the expert members of the review panel and, as such, must reflect the final decisions of elines prior to reading the proposal. The higher the score, the more clearly the proposal satisfies the criterion under to exclude from eligibility departments and/or units engaged solely in instruction. Use the white space provided to explain ores. Attach additional pages, as necessary.
YESNO	A.1	Has the applicant adequately described the institution and unit(s)/department(s) that will benefit from the proposed project, especially in terms of mission, faculty, students, and relevant institutional or departmental resources?
of 5 pts.	A.2	To what extent will the proposed project enhance the affected department(s) or unit(s)?
of 5 pts. COMMENTS:	A.3	To what extent will the project complement and improve upon existing resources of the department(s) or unit(s)?

B. THE ENHANCEMENT PLAN--Total of 66 points Are the goals and objectives clearly stated? _ of 5 pts. B.1 ___ of 23 pts. B.2 Does the work plan sufficiently describe the activities that will be undertaken to achieve the goals and objectives of the proposal with responsible individuals listed for each activity, a schedule of activities with benchmarks to be accomplished, and a description detailing how each objective will be evaluated? of 25 pts. B.3 To what extent will the proposed project catapult the department(s) or unit(s) into attaining a high level of regional, national, or international eminence--or maintaining a current high level of eminence--commensurate with degree offerings and/or functions? **B.4** To what extent will the proposed project have an impact on the variety and quality of curricular of 5 pts. offerings and instructional methods within the affected department(s) or unit(s)? Appropriate to current thinking in the specific field(s) or discipline(s) of the proposed project, is reform of undergraduate education and/or teacher preparation encouraged? B.5 To what extent will the proposed project enhance the ability of the department(s) or unit(s) to _ of 2 pts. attract and/or retain students of high quality, particularly high quality students from Louisiana? B.6 To what extent will the project contribute to improving the quality and effectiveness of faculty of 6 pts. teaching and improve faculty pedagogical practices within the context of current thinking on reform of undergraduate education and teacher preparation, specific to field(s) or discipline(s) of the proposed project? C. FACULTY AND STAFF EXPERTISE--Total of 12 points

Proposal Number:	Principal Investigator:
COMMENTS	Page 2 of 3
COMMENTS:	
D. ECONOMIC AND/OR CUI	LTURAL DEVELOPMENT AND IMPACTTotal of 12 points
of 2 pts. D.1	To what extent will the project assist in establishing a new relationship, or strengthen an existing relationship, with one or more industrial/institutional sponsors (e.g., private business, trade organization, professional organization, non-profit or community organization, another university or consortium of universities, federal government agency)?
NOTE TO REVIEWER:	Depending on the discipline of the submitting department or unit, provide rating points for either D.2a OR D.2b:
of 10 pts. D.2a	For science/engineering proposals only: To what extent will the project assist the submitting department(s)/unit(s) in promoting or enhancing the economic development of the State of Louisiana?
D.2b	For non-science/non-engineering proposals only: To what extent will the project contribute to the academic and/or cultural resources of the State of Louisiana?
COMMENTS:	
E. PREVIOUS SUPPORT FUN	ND AWARDSNo points assigned
YES NO F.1	If the Project Director or Co-Project Director has received previous Support Fund support, has it been adequately documented?
COMMENTS:	
F. TOTAL SCORE (NOTE: F	Proposals with a total score below 70 will not be recommended for funding.)
of 100 points	
Proposal Number:	
	Page 3 of 3
	SPECIFIC BUDGETARY RECOMMENDATIONS
Requested Amount:\$	Recommended Amount:\$
COMMENTS:	
to disclose, divulge, publish, file patent ap	rmation, documentation and material of any kind (hereinafter referred to as "Material") included in this proposal; I further agree not uplication on, claim ownership of, exploit or make any other use whatsoever of said "Material" without the written permission of the knowledge, no conflict of interest is created as a result of my reviewing this proposal.
Reviewer's Name and Institution:	
Reviewer's Signature:	Date:

(Form 6.12, rev.2010)