REPORT TO THE LOUISIANA BOARD OF REGENTS REVIEW OF TRADITIONAL ENHANCEMENT PROPOSALS IN CHEMISTRY FY 2016-17

March 2017

Prepared by:

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BOARD OF REGENTS SUPPORT FUND TRADITIONAL ENHANCEMENT COMPONENT, FY 2016-2017

CHEMISTRY PROPOSALS

Introduction

A review panel consisting of Dr. Jason Locklin (Chair, University of Georgia), Dr. Todd Hudnall (Texas State University), and Dr. Maria Ngu-Schwemlein (Winston-Salem State University) met by virtual panel on Friday, March 3, 2017 to discuss 36 proposals submitted through the Traditional Enhancement Program component of the Board of Regents Support Fund in chemistry.

The panel received the following materials prior to the review: (a) thirty-six (36) complete proposals and the appropriate rating forms; (b) complete reviews and analysis by community college consultant Dr. Katherine Boswell, Education Policy Associates, of the three (3) proposals submitted by two-year institutions; (c) a summary of the proposals listing titles, PIs, submitting institutions, and funds requested; (d) the RFP containing the criteria for evaluation; and (e) a copy of the FY2013-14 Traditional Enhancement Chemistry final report. Each panelist was assigned twenty-four (24) proposals for review by the panel chair. These proposals were then reviewed by the panelists. Each proposal received a thorough and impartial review.

A total of \$3,436,689 in first-year funds were requested by all proposals. The panel ranked all proposals, and highly recommended funding for ten (10) proposals with first-year awards totaling \$939,982.

This report contains two tables. Table I contains a rank-order list of the proposals deemed highly recommended for funding, with the recommended funding level for each proposal. Table II lists proposals in rank order that were not recommended for funding. The detailed reviews of each proposal follow 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 attached at the end of the report.

TABLE I PROPOSALS HIGHLY RECOMMENDED FOR FUNDING

				First Year	First Year	Second Year	Second Year
		Proposal		Funds	Funds	Funds	Funds
Rank	Rating	Number	Institution	Requested	Recommended	Requested	Recommended
1	96	03CHE-17	CEN	\$39,183	\$39,183		
2	95	15CHE-17	Loyola	\$124,491	\$124,491		
3	94	26CHE-17	Tulane	\$104,914	\$104,914		
4	93	09CHE-17	LSUAM	\$155,000	\$155,000		
5	91	23CHE-17	SLU	\$135,678	\$87,071		
6	90.5	07CHE-17	LSUAM	\$204,951	\$204,951		
7	90	14CHE-17	LaTech	\$85,220	\$85,220		
8	89	28CHE-17	ULL	\$60,175	\$60,175		
9	88.5	30CHE-17	ULL	\$11,255	\$11,255		
10	88	36CHE-17	Xavier	\$131,805	\$67,722		
		TOTALS:		\$1,052,672	\$939,982	\$0	\$0

TABLE II
PROPOSALS NOT RECOMMENDED FOR FUNDING

				First Year	First Year	Second Year	Second Year
		Proposal		Funds	Funds	Funds	Funds
Rank	Rating	Number	Institution	Requested	Recommended	Requested	Recommended
11	87.5	06CHE-17	LSUAM	\$79,900	\$0		
11	87.5	08CHE-17	LSUAM	\$134,691	\$0		
11	87.5	34CHE-17	ULM	\$92,844	\$0		
14	87	20CHE-17	NSU	\$108,176	\$0		
14	87	21CHE-17	NSU	\$64,689	\$0		
16	86	31CHE-17	ULL	\$98,803	\$0		
17	85	11CHE-17	LSUA	\$130,048	\$0		
18	84	02CHE-17	BRCC	\$27,137	\$0		
19	83	32CHE-17	ULL	\$44,831	\$0		
19	83	35CHE-17	UNO	\$25,000	\$0		
21	82	17CHE-17	Nicholls	\$99,356	\$0		
21	82	29CHE-17	ULL	\$76,120	\$0		
23	80	24CHE-17	SUNO	\$63,655	\$0		
24	79	10CHE-17	LSUAM	\$125,210	\$0	\$0	\$0
24	79	33CHE-17	ULL	\$31,510	\$0		
26	72.5	19CHE-17	NSU	\$98,300	\$0		
27	71	13CHE-17	LSUS	\$125,000	\$0	\$0	\$0
28	70	18CHE-17	NSU	\$22,167	\$0		
29	67	22CHE-17	Nunez	\$280,844	\$0		
30	62	25CHE-17	Tulane	\$200,000	\$0		
31	58	01CHE-17	BRCC	\$59,556	\$0		
31	58	27CHE-17	UHC	\$100,515	\$0		
33	42	16CHE-17	Nicholls	\$129,402	\$0 \$0	Φ0	Φ0
34	39	05CHE-17	LSUAM	\$30,000	\$0 •••	\$0	\$0
34	39	12CHE-17	LSUS	\$0	\$0 \$0		
36	38	04CHE-17	LSUAG	\$136,263	\$0	•	•
		TOTALS:		\$2,384,017	\$0	\$0	\$ 0

		PROPOSAL NUMBE	CR: 01CHE-17
INSTITUTION:	Baton Rouge Community	College	
TITLE OF PROPOSA	L: The Enhancer	nent of NMR Capabilities	in the Sciences for
		Research at Baton Rouge	
PRINCIPAL INVEST		Dewayne Logan	, c
A. The Current Situat	tion	B. The Enhand	rement Plan
(Total of 10 Points)		(Total of 56 Poi	
A.1 Yes x	No	B.1	6 (of 10 points)
A.2 3	(of 5 points)	B.2	8 (of 21 points)
A.3 3	(of 5 points)	B.3	4 (of 5 points)
	. (- 1	B.4	2 (of 5 points)
C. Equipment		B.5	3 (of 5 points)
(Total of 10 Points)		B.6	3 (of 5 points)
C.1 3	(of 6 points)	B.7	0 (of 5 points)
C.2 1	(of 1 point)		` 1
C.3 3	(of 3 points)	D. Faculty and	Staff Expertise
	. ` '	(Total of 12 Poi	_
E. Economic and/or C	Cultural	D.1	12 (of 12 points)
Development and Imp	act		\ \ \ \ \ \ \ \
(Total of 12 Points)			
È.1 2	(of 2 points)	F. Previous Su	pport Fund Awards
E.2a 5	(For S/E)	(No Points Assi	
or	(of 10 points)	G.1 Yes	x No
E.2b	(For NS/NE)		
	. `		
G. Total Score:	58 (of 100 points	s)	
(Note: Proposals with	a total score below 70 w	ill not be recommended	for funding.)
SPECIFIC BUDGETA	ARY Requested Ar	mount: \$59	9,556
RECOMMENDATIO	NS: Recommende	ed 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 requested benchtop NMR will undoubtedly make an great impact on both the research and teaching infrastructure at BRCC. The proposal does not cite what experiments would be added to appropriate courses utilizing the instrument. It does not include any measurable objectives or evaluation strategies to reflect to what degree the project achieved its goals. This makes the impact of the project on the curriculum less clear. The primary focus of the proposal is on enhancing faculty research capacity rather than supporting the teaching and learning needs of lower-division chemistry students at a two-year community college. A functioning NMR is important for both education and research activities. However this proposal does not adequately make that connection to justify the acquisition. Funding is not recommended.

		PRO.	POSAL NU	MBER:	02CHE-17
INSTITUTION:	Baton Rouge Con	nmunity College			
TITLE OF PROPOS	SAL: Enhan	cing Laboratory	Instruction	and Researcl	n in Chemistry
		h the Acquisition			
PRINCIPAL INVES	STIGATOR:	Divina Mi	iranda	_	
A. The Current Situ	ıation		B. The E	nhancement	Plan
(Total of 10 Points)			(Total of 5	66 Points)	
A.1 Yes x	No		B .1	9	(of 10 points)
A.2 4	(of 5 points)		B.2	18	(of 21 points)
A.3 4	(of 5 points)		B.3	4	(of 5 points)
	_ `		B.4	4	(of 5 points)
C. Equipment			B.5	4	(of 5 points)
(Total of 10 Points)			B.6	4	(of 5 points)
C.1 5	(of 6 points)		B.7	5	(of 5 points)
C.2 1	(of 1 point)				_
C.3 3	(of 3 points)		D. Facult	y and Staff	Expertise
	_ `		(Total of 1	2 Points)	•
E. Economic and/or	Cultural		D.1	10	(of 12 points)
Development and Im	ıpact				<u> </u>
(Total of 12 Points)	•				
È.1 1	(of 2 points)		F. Previo	us Support	Fund Awards
E.2a 8	$$ (For \hat{S}/E)		(No Points	s Assigned)	
or	(of 10 points)		G.1 Yes	O ,	No x
E.2b	(For NS/NE)				
-	<u> </u>				
G. Total Score:	84 (of 10	0 points)			
(Note: Proposals wi	th a total score belo	w 70 will not be	e recommei	nded for fun	ding.)
SPECIFIC BUDGET	ΓARY Reque	ested Amount:		\$27,137	_
RECOMMENDATION	ONS: Recon	nmended Amou	nt:	\$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 seeks a fluorescence spectrophotometer to enhance laboratory instruction and promote undergraduate research. Many aspects of it are well written. This equipment will complement existing instrumentation and will have an impact on curricular and faculty development. Specific experiments are outlined for implementation in some courses. The goals and objectives are also clearly presented with measureable outcomes. However, the proposal lacks details on how its curricular enhancement and undergraduate research could better prepare students for four-year programs or the workforce. It is commendable for the PI to participate in research for professional development. However this aspect of the proposal could be better developed to focus on student-centered research projects to enhance student success. Funding is not recommended.

		PROPOSA	AL NUMBER:	03CHE-17
INSTITUTION:	Centenary Colleg	e		
TITLE OF PROPO		ning and Enhancing and Computational Too		nemistry Curriculum
PRINCIPAL INVE	STIGATOR:	Thomas Ticich		
A. The Current Sit (Total of 10 Points) A.1 Yes x	uation No	(Tot	The Enhancement al of 56 Points)	
A.1 Yes x A.2 5	$\frac{100}{\text{(of 5 points)}}$	B.1 B.2	$\frac{7}{20}$	(of 10 points) (of 21 points)
A.3 5	(of 5 points)	B.2 B.3	5	(of 5 points)
A.5	_ (or 5 points)	B.3 B.4	5	(of 5 points)
C. Equipment		B.5	5	(of 5 points)
(Total of 10 Points)		B.6	5	(of 5 points)
C.1 6	(of 6 points)	B.7	5	(of 5 points)
$\frac{\text{C.2}}{\text{C.2}}$	(of 1 point)	D .,		(or a points)
C.3 3	(of 3 points)		Faculty and Staf	f Expertise
E. Economic and/o	r Cultural	D.1	12	(of 12 points)
Development and In (Total of 12 Points)	mpact			
E.1 2	(of 2 points)	F. I	Previous Suppor	t Fund Awards
E.2a 10	- (For S/E)	(No	Points Assigned)	
or	of 10 points)	G.1	Yes x	No
E.2b	(For NS/NE)			_
G. Total Score:	96 (of 10	00 points)		
(Note: Proposals w	ith a total score be	low 70 will not be re	ecommended for	funding.)
SPECIFIC BUDGE	TARY Requ	ested Amount:	\$39,183	

RECOMMENDATIONS: Recommended Amount: \$39,183

COMMENTS: (Discuss proposal strengths and weaknesses, particularly in those sections where

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 requests funds to enhance the Chemistry curriculum by upgrading a computer classroom. The rationale and objectives are clearly presented and are measurable. The work plan provides details of curricular activities, including proposed experiments, which will impact a significant number of courses. This is a well-written proposal and there is a good track record of previous funded curricular improvement projects in the department. The proposed upgrades to the outdated computers and software are reasonable and essential. Full funding is recommended.

	PROPOSAL NUMBER:	04CHE-17
INSTITUTION: Louisiana State Unive	rsity Agricultural Center	
TITLE OF PROPOSAL: Reverse Os	smosis, Micro, Ultra and Nano Filtrati	on Equipment for
	and Research of Concentration and Fra	
	Chemical Components in Fluid Foods	
		
PRINCIPAL INVESTIGATOR:	Kayanush Aryana	
A. The Current Situation	B. The Enhancement I	Plan
(Total of 10 Points)	(Total of 56 Points)	1411
A.1 Yes x No	B.1 4.5	(of 10 points)
A.2 (of 5 points)	B.2 8	(of 21 points)
A.3 (of 5 points)	B.3 1.5	(of 5 points)
(1 1 1 1 1 1)	B.4 1.5	(of 5 points)
C. Equipment	B.5 1.5	(of 5 points)
(Total of 10 Points)	B.6 1	(of 5 points)
C.1 3 (of 6 points)	B.7 1	(of 5 points)
$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$		` ' '
$\overline{1.5}$ (of 3 points)	D. Faculty and Staff E	xpertise
	(Total of 12 Points)	•
E. Economic and/or Cultural	D.1 5	(of 12 points)
Development and Impact		. 1
(Total of 12 Points)		
E.1 (of 2 points)	F. Previous Support F	und Awards
E.2a ${}$ (For \hat{S}/E)	(No Points Assigned)	
or (of 10 points)	G.1 Yes x	No
E.2b (For NS/NE)		
·		
G. Total Score: 38 (of 100 po	ints)	
(02 200 p	,	
(Note: Proposals with a total score below 76	0 will not be recommended for fund	ing.)
SPECIFIC BUDGETARY Requested	Amount: \$136,263	
RECOMMENDATIONS: Recomme	nded 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 School of Animal Sciences seeks to acquire filtration equipment that will enhance teaching and research pertaining to the fractionation of a range of chemical components from fluid foods. The objective of this project is to train graduate and undergraduate students in microfiltration and ultrafiltration techniques of fluid dairy products. This proposal lacks details on how the equipment could benefit research and curricular activities in the Chemistry discipline. This version of the proposal is better suited for the Agricultural Sciences discipline of the Traditional Enhancement Program. Funding is not recommended.

RATING FORM FOR ENHANCEMENT REQUESTS OTHER THAN EQUIPMENT PURCHASES

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T.T. 1 D. 4

	PROPOSAL NUMBE	R: U5CHE-1/
INSTITUTION: Louisiana S	tate University and A & M College	
TITLE OF PROPOSAL:	Expanding the LSU CAMD Synchrotron	User Community
PRINCIPAL INVESTIGATOR:	Leslie Butler	
A. The Current Situation (Total of 10 Points)	B. The Enhanc (Total of 66 Poin	
A.1 Yes x No	B.1	3 (of 10 points)
A.2 1.5 (of 5 points	B.2	$\overline{7.5}$ (of 20 points)
A.3 ${}$ (of 5 points		2.5 (of 8 points)
`` `		(of 8 points)
C. Faculty and Staff Expertise		(of 8 points)
(Total of 12 Points)		(of 8 points)
C.1 12 (of 12 point		(of 4 points)
D. Economic and/or Cultural		
Development and Impact	E. Previous Su	pport Fund Awards
(Total of 12 Points)	(No Points Assignment)	gned)
D.1 2 (of 2 points	·	x No
D.2a $\frac{1.5}{\text{(For S/E)}}$	·	
or (of 10 point	ts)	
D.2b (For NS/NE		
	(of 100 points)	

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

		YEAR I	YEAR 2
SPECIFIC BUDGETARY	Requested		
RECOMMENDATIONS:	Amount:	\$30,000	\$0
	Recommended		
	Amount:	\$0	\$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 seeks travel costs for new faculty and students to perform experiments at national synchrotron facilities. Though this project has the potential to help faculty and students, it is poorly constructed. The opening sections are very brief and simply refer to other sections rather than describing the current situation. A portion of the proposal guidelines in the proposal were inadvertantly left in the text at the beginning of section 2. There are also several typos throughout, and the proposal lacks polish in its writing and ideas. The project goals and objectives are very brief, and a weakness of the proposal with poorly delineated measurables and assessments. It is not clear why the PI is leading the proposal rather than serving as a co-PI, since the PI's work is not enhanced by this proposal. The work plan is too brief and filled with asides and discussions regarding prior success of the PI, followed by statements that the PI will not benefit from the proposal. Funding is not recommended.

		PROPO	JSAL NUM	BEK:	06CHE-17
INSTITUTION:	Louisiana State U	University and A & I	M College		
TITLE OF PROPOSA	AL: Enhar	nced Probe Capabili	ties for 500	MHz NM	R Spectrometer
PRINCIPAL INVEST	TIGATOR:	Rendy Kartil	ka		
A. The Current Situa (Total of 10 Points)	tion		3. The Enha Total of 56 F		Plan
A.1 Yes x	No	`	3.1	8	(of 10 points)
$\frac{A.1}{A.2}$ $\frac{A.2}{4.5}$	(of 5 points)		3.2	15.5	(of 21 points)
A.3 4.5	(of 5 points)		3.3 —	4.5	(of 5 points)
11.5	(or 5 points)			5	(of 5 points)
C. Equipment				4	(of 5 points)
(Total of 10 Points)			— 3.6	4.5	(of 5 points)
C.1 6	(of 6 points)		-	5	(of 5 points)
C.2 1	(of 1 point)	_			_ (** * F ******)
C.3 3	(of 3 points)	D). Faculty a	nd Staff	Expertise
	_ ` ' '		Total of 12 H		•
E. Economic and/or C	Cultural	È) .1	11	(of 12 points)
Development and Imp	act				- ` ' '
(Total of 12 Points)					
E.1 2	(of 2 points)	F	. Previous	Support	Fund Awards
E.2a 9	(For S/E)	(1	No Points A	ssigned)	
or	(of 10 points)	C	G.1 Yes	X	No
E.2b	(For NS/NE)				
G. Total Score:	87.5 (of 10	00 points)			
(Note: Proposals with	a total score bel	ow 70 will not be re	ecommende	d for fun	ding.)
SPECIFIC BUDGETA	ARY Requ	ested Amount:		\$79,900	_
RECOMMENDATIO	NS: Reco	mmended Amount	: <u> </u>	\$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 seeks a TBI probe for the NMR lab. Though the work plan is well written and would likely achieve the presented goals, the benchmarks that the PI hopes to accomplish are not clearly laid out in detail, especially with regard to the truncated timetable they will be facing post installation. Acquisition and installation will dispose of approximately 80% of the first year, leaving little time to achieve and assess the measurable objectives. The impact on research and education is clearly defined. The instrument enhances the lab's capabilities but will ultimately serve as a back-up probe for a unit that is only three years old. It is a quality proposal but ultimately less compelling with limited funds available. Funding is not recommended.

	PROPOSAL NUMBER:	07CHE-17
INSTITUTION: Louisiana Sta	ate University and A & M College	
TITLE OF PROPOSAL: SI	hared Facilities for Materials Research: Upg	grade of the
Si	mall-Angle X-Ray Scattering Beamline at L	SU CAMD
PRINCIPAL INVESTIGATOR:	Evgueni Nesterov	
A. The Current Situation	B. The Enhancemen	t Plan
(Total of 10 Points)	(Total of 56 Points)	
A.1 Yes x No	B.1 8.5	(of 10 points)
A.2 ${}$ (of 5 points)	B.2 20	(of 21 points)
A.3 ${}$ (of 5 points)		(of 5 points)
	B.4 5	(of 5 points)
C. Equipment	B.5 4	(of 5 points)
(Total of 10 Points)	B.6 5	(of 5 points)
C.1 6 (of 6 points)		(of 5 points)
$\overline{\text{C.2}}$ (of 1 point)		_ ` ' '
$C.3$ ${3}$ (of 3 points)	D. Faculty and Staff	Expertise
(**** p*******)	(Total of 12 Points)	F
E. Economic and/or Cultural	D.1 12	(of 12 points)
Development and Impact	<u> </u>	_ (or 12 points)
(Total of 12 Points)		
E.1 2 (of 2 points)	F. Previous Support	Fund Awards
E.2a 6 (For S/E)	(No Points Assigned)	I did i wai ds
or $\frac{1}{100}$ (of 10 points		No
E.2b (For NS/NE)		
(101119/1112)	,	
G. Total Score: 90.5	of 100 points)	
(Note: Proposals with a total score	below 70 will not be recommended for fo	unding.)
SPECIFIC BUDGETARY R	equested Amount: \$204,951	

RECOMMENDATIONS: Recommended Amount: \$204,951

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.)

CAMD seeks to upgrade the Small-Angle X-ray Scattering (SAXS) beamline to enable training in stateof-the-art material characterization techniques. The goals and objectives are well rationalized and will increase the eminence of CAMD by enhancing research capabilities. The upgrade will benefit many research groups in Louisiana, as well as improve interdisciplinary collaborations and competitiveness for federal funding. This project is considered a key component of research and teaching facilities by numerous units and is a priority for CAMD as endorsed by various letters of commitment. The evaluation plan could be more specific. The timeline for implementation of the proposed activities is acceptable, but there is no mention of any specific benchmarks that will be used for assessment. A significant institutional match is committed. Full funding is recommended.

	PROPOSAL NUMBER:	U8CHE-17
INSTITUTION: Louisiana Sta	ate University and A & M College	
TITLE OF PROPOSAL: A	ccurate Mass ESI TOF Mass Spectrometer	
PRINCIPAL INVESTIGATOR:	Justin Ragains	
A. The Current Situation (Total of 10 Points)	B. The Enhancement (Total of 56 Points)	t Plan
A.1 Yes x No	B.1 9	(of 10 points)
A.2 ${}$ (of 5 points)	B.2 18	of 21 points
A.3 ${}$ (of 5 points)	B.3 4	(of 5 points)
	$B.4 \overline{\qquad 4.5}$	(of 5 points)
C. Equipment	B.5 4	(of 5 points)
(Total of 10 Points)	B.6 4	(of 5 points)
C.1 5 (of 6 points)	B.7 3	(of 5 points)
C.2 (of 1 point)		_ ` ' '
$\overline{3}$ (of 3 points)	D. Faculty and Staff	Expertise
``	(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)	F. Previous Support	Fund Awards
E.2a ${}$ (For \hat{S}/E)	(No Points Assigned)	
or (of 10 points		No x
E.2b (For NS/NE)	·)	
G. Total Score: 87.5	of 100 points)	
(Note: Proposals with a total score	below 70 will not be recommended for fun	iding.)
SPECIFIC BUDGETARY R	equested Amount: \$134,691	
RECOMMENDATIONS: R	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.)

This is a well-written proposal that provides a strong justification for acquiring a refurbished Accurate Mass ESI-TOF mass spectrometer to replace an aging workhorse, an Agilent ESI-MS. The PI makes a significant case for the need of this instrument, which would benefit most of the Chemistry faculty research groups, and also improve student training. Specific research projects that will be enhanced are described in substantial detail. However, the PI did not articulate how curricular enrichment activities could be implemented to take advantage of the requested equipment. The evaluation plan could be strengthened by including some quantitative measures. Though compelling, with limited resources available, funding is not recommended.

	PROPOSAL NUMBER:	09CHE-17
NSTITUTION: Louisiana State	University and A & M College	
TITLE OF PROPOSAL: Enha	ancement of the LSU Chemistry X-ray Fa	cility
PRINCIPAL INVESTIGATOR:	George Stanley	
A. The Current Situation	B. The Enhancement	Plan
Total of 10 Points)	(Total of 56 Points)	
A.1 Yes x No	B.1 10	(of 10 points)
$\frac{5}{6} \text{ (of 5 points)}$	B.2 19	(of 21 points)
$\frac{1}{5} \text{(of 5 points)}$	B.3 5	(of 5 points)
	B.4 4	(of 5 points)
C. Equipment	B.5 4	(of 5 points)
Total of 10 Points)	B.6 5	(of 5 points)
C.1 5 (of 6 points)	B.7 4	(of 5 points)
$\frac{1}{2}$ (of 1 point)	···	_ `
$\frac{1}{2.3} \qquad \frac{1}{3} \qquad \text{(of 3 points)}$	D. Faculty and Staff	Expertise
(32.2 points)	(Total of 12 Points)	1
2. Economic and/or Cultural	D.1 12	(of 12 points)
Development and Impact		_ (01 12 points)
Total of 12 Points)		
E.1 2 (of 2 points)	F. Previous Support	Fund Awards
$\frac{2}{9} \frac{\text{(of 2 points)}}{\text{(For S/E)}}$	(No Points Assigned)	L WILL II II WI WD
$\frac{1.2a}{\text{rr}} \frac{\text{(1 of 5/L)}}{\text{(of 10 points)}}$	G.1 Yes x	No
E.2b (For NS/NE)	0.1 105 A	
(1 of 195/19E)		
G. Total Score: 93 (of 1	100 points)	
Note: Proposals with a total score be	low 70 will not be recommended for fu	nding.)
SPECIFIC BUDGETARY Requ	uested Amount: \$155,000	
	0177.000	_

RECOMMENDATIONS: Recommended Amount: \$155,000

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 seeks to enhance the capabilities of the LSU Chemistry X-ray facility by relocating a previous BoRSF-funded diffractometer from UNO to LSU. The instrument will then be repaired and upgraded to current state-of-the-art levels and replace an unserviceable 18-year old diffractometer. This project will address a significant research need for both LSU and UNO and impact a large number of courses. The LSU X-ray facility has an outstanding service track record and this project is essential to accomodate increasing usages. Expert staff support is in place. It is laudable that the two universities have found a creative and efficient way to enhance the research infrastructure for both parties. Full funding is recommended.

	Pl	ROPOSAL NUN	MBER:	10CHE-17
INSTITUTION: Louisian	na State University and	A & M College		
TITLE OF PROPOSAL:	Enhancement of the	LSU Electron P	aramagnet	tic Resonance
	Spectroscopy Facili			
	Conservation	, ,		
PRINCIPAL INVESTIGATO	R: David	Vinyard		
A. The Current Situation		B. The Enf	nancemen	t Plan
(Total of 10 Points)		(Total of 56	Points)	
A.1 Yes x No		B.1	9.5	(of 10 points)
A.2 $\frac{2.5}{}$ (of 5 pc	oints)	B.2	17	of 21 points)
A.3 (of 5 pc	oints)	B.3	3	(of 5 points)
		B.4	3	(of 5 points)
C. Equipment		B.5	4	(of 5 points)
(Total of 10 Points)		B.6	4	(of 5 points)
C.1 6 (of 6 pc	oints)	B.7	5	(of 5 points)
C.2 (of 1 pc		-		
$\overline{}$ C.3 $\overline{}$ (of 3 pc	oints)	D. Faculty	and Staff	Expertise
``	,	(Total of 12		1
E. Economic and/or Cultural		D.1	9.Ś	(of 12 points)
Development and Impact		-		_ ` ' '
(Total of 12 Points)				
E.1 2 (of 2 pc	oints)	F. Previous	s Support	Fund Awards
E.2a 6 (For S/)		(No Points A		
or (of 10 p		G.1 Yes	X	No
E.2b (For NS		-		<u> </u>
·	<u> </u>			
G. Total Score: 79	(of 100 points)			
(Note: Proposals with a total s	score below 70 will no	t be recommend	led for fu	nding.)
		YEAR 1		YEAR 2
SPECIFIC BUDGETARY	Requested			
RECOMMENDATIONS:	Amount:	\$125,210		\$0
	Recommended	,,		
	Amount:	\$0		\$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 Department of Chemistry seeks a cryogen-free cryostat system that can be integrated into existing electron paramagnetic resonance (EPR) instrumentation. The work plan describes three clearly measurable objectives that can be completed within the timeframe of two years. The work plan was well written, and all the activities and attendant parties to carry out said activities were adequately described. While the proposed equipment will no doubt enhance undergraduate research capabilities, there is minimal impact on the undergraduate or graduate curriculum. Details are not provided on maintenance. Will the institution provide the money for long-term upkeep, or will user fees support this? The description of economic impact is weak. Funding is not recommended.

	PROPOSAL NUMBER:	11CHE-17
INSTITUTION: Louisiana State U	University at Alexandria	
TITLE OF PROPOSAL: Enhan	ncing the Chemistry Curriculum at LSUA	through the
Acqui	sition of Gas Chromatography-Mass Spe	ctrometer [GC-MS]
and A	tomic Absorption Spectrometer [AAS] E	quipment
PRINCIPAL INVESTIGATOR:	Gerard Dumancas	
A. The Current Situation	B. The Enhancement	t Plan
(Total of 10 Points)	(Total of 56 Points)	
A.1 Yes x No	B.1 8.5	(of 10 points)
A.2 (of 5 points)	B.2 18.5	(of 21 points)
A.3 $\frac{4.5}{}$ (of 5 points)	B.3 3	(of 5 points)
	B.4 5	(of 5 points)
C. Equipment	B.5 4.5	(of 5 points)
(Total of 10 Points)	B.6 4	(of 5 points)
C.1 (of 6 points)	B.7 3.5	(of 5 points)
C.2 (of 1 point)		_
C.3 $\frac{2}{}$ (of 3 points)	D. Faculty and Staff	Expertise
	(Total of 12 Points)	
E. Economic and/or Cultural	D.1 9.5	(of 12 points)
Development and Impact		_
(Total of 12 Points)		
E.1 2 (of 2 points)	F. Previous Support	Fund Awards
E.2a $\overline{9}$ (For S/E)	(No Points Assigned)	
or (of 10 points)	G.1 Yes x	No
E.2b (For NS/NE)		
G. Total Score: 85 (of 10	00 points)	
(Note: Proposals with a total score belo	ow 70 will not be recommended for fun	nding.)
-	ested Amount: \$130,048	_
RECOMMENDATIONS: Recor	nmended 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 proposal seeks the acquisition of GC-MS and AA instruments to enhance the Chemistry curriculum and research opportunities. The justification is strong. The equipment would enhance development of the approved BS program in Chemistry through the introduction of an Instrumental Analysis Lab. The work plan is solid with a clear timeline of events, and appropriate faculty to execute them. Experiments to be included into the various labs are not described. The relationship to an analysis company started by the PI is not clearly described. With limited resources available, funding is not recommended.

	PROPOSAL NUMBER:	12CHE-17
INSTITUTION: Louisiana State University	in Shreveport	
TITLE OF PROPOSAL: Enhancement of	Research Infrastructure for Dr	ug Discovery
Projects at LSU	S	
PRINCIPAL INVESTIGATOR: Ela	he Mahdavian	
A. The Current Situation	B. The Enhancement	Plan
(Total of 10 Points)	(Total of 56 Points)	
A.1 Yes x No	B.1 6	(of 10 points)
A.2 $\frac{2}{\sqrt{(\text{of 5 points})}}$	B.2 4	of 21 points)
A.3 ${}$ (of 5 points)	B.3 2	(of 5 points)
	B.4 1	(of 5 points)
C. Equipment	B.5 3	(of 5 points)
(Total of 10 Points)	B.6 1	(of 5 points)
C.1 2 (of 6 points)	B.7 1	(of 5 points)
$\overline{0}$ (of 1 point)		_
C.3 (of 3 points)	D. Faculty and Staff	Expertise
	(Total of 12 Points)	
E. Economic and/or Cultural	D.1 10	(of 12 points)
Development and Impact		_
(Total of 12 Points)		
E.1 0 (of 2 points)	F. Previous Support	Fund Awards
E.2a $\overline{3}$ (For S/E)	(No Points Assigned)	
or (of 10 points)	G.1 Yes	No x
E.2b (For NS/NE)		
G. Total Score: 39 (of 100 points)		
(Note: Proposals with a total score below 70 will	not be recommended for fun	ding.)
SPECIFIC BUDGETARY Requested Amo		_
RECOMMENDATIONS: 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 seeks to acquire state-of-the-art equipment to allow the principal investigators and students to connect current research endeavors to a larger enhanced Biochemistry Core. The goals, objectives and work plan are too broadly defined, as is the extensive range of equipment and instrument requested. The described programmatic enhancement could benefit from a well-defined instrument request and significant support from the institution for the complementary small equipment requested. Letters of support/commitment from relevant academic units showing how the core facility could be incorporated into their programs would ensure commitments for efficient use of the requested equipment. The budget request appears to be out of proportion to the available funds. Major revisions of this proposal would be necessary for the project to be competitive for funding. The Pls do not specifically describe what equipment will be purchased, and therefore it is difficult to determine how the equipment will impact the department and curriculum, or enhance existing resources. There was discussion relating to -80 degree Celsius freezers and biosafety cabinets, but it is unclear what other equipment is to be purchased. Though the total request appears to be in the area of \$300,000, no budget was attached to the proposal as submitted, and no funds were officially requested. Therefore no funding is recommended.

	PROPOSA	L NUMBER:	13CHE-17
INSTITUTION: Louisiana	State University in Shreveport		
TITLE OF PROPOSAL:	AFM for Chemistry and Nano	oscience Education	n and Research
PRINCIPAL INVESTIGATOR:	William Yu		
A. The Current Situation (Total of 10 Points)		he Enhancement l of 56 Points)	Plan
A.1 Yes x No A.2 3 (of 5 poin A.3 (of 5 poin	B.3	$\frac{\frac{7}{17}}{\frac{2}{2}}$	(of 10 points) (of 21 points) (of 5 points)
C. Equipment (Total of 10 Points) C.1 3 (of 6 points)		$ \begin{array}{r} 3 \\ 3 \\ \hline 3 \\ 4 \end{array} $	(of 5 points) (of 5 points) (of 5 points) (of 5 points)
C.2	D. F (Tota	aculty and Staff I	•
E. Economic and/or Cultural Development and Impact (Total of 12 Points)	D.1	10	(of 12 points)
E.1 2 (of 2 poin E.2a 7 (For S/E) or (of 10 poin E.2b (For NS/N	(No F nts) G.1	revious Support I Points Assigned) Yes x	F und Awards No
G. Total Score: 71	(of 100 points)		
(Note: Proposals with a total sco	re below 70 will not be recor	nmended for fund	ding.)
OBECIEVO BUD CETA DV	YEA	R 1	YEAR 2
SPECIFIC BUDGETARY RECOMMENDATIONS:	Requested Amount: \$125 Recommended	5,000	\$0
		60	\$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 seeks to acquire an atomic force microscope (AFM) for chemistry and nanoscience education and research. The rationale for the proposed enhancement lacks some details. An AFM would allow higher resolution and broaden the types of samples that can be analyzed, but it is not clear why existing instrumentation, such as the TEM and SEM, could not be used for curricular activities. It is not clear if there is a new institutional focus on chemistry and nanoscience that justifies a suite of microscopy tools. It is uncertain how many students will benefit from the project in terms of the mission of the chemistry program. The work plan is vague. Another issue is that the planned incorporation of experiments into the undergraduate curriculum seems very difficult. Funding is not recommended.

				PROP	OSAL NU	JMBER:	14CHE-17
INSTITUTIO	N:	Louisiana	Tech Universit	у			
TITLE OF PR	OPOSA	AL:	Incorporation	of Moder	n Chemica	l Separation	Techniques
_							ry/Environmental
			Science Labs				<u>, </u>
PRINCIPAL I	NVEST	IGATOR:	U	Jpali Siriw	ardane		
A. The Curre	nt Situa	tion			B. The E	nhancemen	t Plan
(Total of 10 Po	ints)				(Total of 5	66 Points)	
A.1 Yes	X	No			B .1	8	(of 10 points)
A.2	4	of 5 poin	ts)		B.2	20	(of 21 points)
A.3	4	of 5 poin			B.3	5	(of 5 points)
		_ ` ^	,		B.4	5	(of 5 points)
C. Equipment	t				B.5	4	(of 5 points)
(Total of 10 Po					B.6	5	(of 5 points)
C.1	6	(of 6 poin	ts)		B.7	5	(of 5 points)
C.2	1	of 1 poin					_ (
C.3	3	of 3 poin			D. Facult	ty and Staff	Expertise
		_ (,		(Total of	•	r
E. Economic a	and/or (Cultural			D.1	10	(of 12 points)
Development a							_ (or 12 points)
(Total of 12 Po		, act					
E.1	2	(of 2 poin	ts)		F. Previo	us Support	Fund Awards
E.2a	8	(For S/E)				s Assigned)	
or		(of 10 poi	nts)		G.1 Yes	X	No
E.2b		(For NS/N			0.1 105		
		_ (2 02 2 1,0/1	,				
G. Total Score	e:	90	(of 100 points	s)			
(Note: Propos	als with	n a total sco	ore below 70 w	ill not be	recomme	nded for fu	nding.)
SPECIFIC BU			Requested Ar	mount:		\$85,220	<u> </u>
DECOMMEN	DATIO	NC.	Dogommondo	d Amour	4.	\$85,220	

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 requests new analytical instrumentation (GC/HPLC) to enhance the chemical separations and analytical capabilities of the integrated chemistry/environmental sciences laboratory. The department is well equipped with regard to many different areas in chemistry, but lacking with regard to separations. The goals and objectives have clear measurables that can be appropriately assessed, and the work plan is clearly delineated with a solid timeline. A long list of demonstrations and experiments are planned for both pieces of equipment to implement immediately once the equipment is installed. The institutional match is strong. Full funding is recommended.

		PROI	POSAL NUM	IBER:	15CHE-17
INSTITUTION:	Loyola Univers	sity New Orleans			
TITLE OF PROF	POSAL: Cha	racterization of Pov	wdered Sampl	les for Tea	aching and Research
PRINCIPAL INV	ESTIGATOR:	Lynn Kopl	litz		
A. The Current S			B. The Enh		t Plan
(Total of 10 Points			(Total of 56	,	
A.1 Yes x	No		B.1	10	(of 10 points)
A.2 5	(of 5 points)		B.2	18	(of 21 points)
A.3 5	(of 5 points)		B.3	5	(of 5 points)
			B.4	5	(of 5 points)
C. Equipment			B.5	4	(of 5 points)
(Total of 10 Points	*		B.6	4	(of 5 points)
C.1 6	(of 6 points)		B.7	5	(of 5 points)
C.2 1	(of 1 point)		_		_
C.3 3	(of 3 points)		D. Faculty	and Staff	Expertise
'			(Total of 12	Points)	
E. Economic and	or Cultural/		D.1	12	(of 12 points)
Development and	Impact		_		_
(Total of 12 Points	s)				
E.1 2	(of 2 points)		F. Previous	Support	Fund Awards
E.2a 10	(For S/E)		(No Points A	Assigned)	
or	(of 10 points)		G.1 Yes	X	No
E.2b	(For NS/NE)		_		
G. Total Score:	95 (of	100 points)			
(Note: Proposals	with a total score b	elow 70 will not be	recommend	ed for fu	nding.)
SPECIFIC BUDG	GETARY Req	quested Amount:		\$124,491	_
DECOMMENDA	TIONG D	1 1 4	_	¢104 401	

RECOMMENDATIONS: Recommended Amount: \$124,491

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 seeks to acquire a powder e-ray diffraction instrument and attendant diffuse reflectance accessory to enhance instruction. It will make a sizeable impact on the existing resources and student training. The instrument is an invaluable tool in both education (particularly in terms of macromolecular/materials characterization, an ACS requirement) and research. The goals and objectives of the work plan are clearly described and are easily assessable. The work plan is excellent, with clearly described activities and benchmarks described with appropriate timelines. Full funding is recommended.

	j	PROPOSAL N	J MBER:	16CHE-17
INSTITUTION: Nicholls	State University			
TITLE OF PROPOSAL:	Acquisition of Lie	uid Chromatog	anh-Mass Sn	ectrometer [LC-MS]
TITLE OF TROTOSAL.				ım at Nicholls State
	University	Jimentar Chemi	stry Curricure	in at 1 victions state
PRINCIPAL INVESTIGATOR	: <u>Raj E</u>	Boopathy		
A. The Current Situation		R The F	hancement	Dlan
(Total of 10 Points)			56 Points)	1 Ian
A.1 Yes x No		B.1	4.5	(of 10 points)
A.2 $\frac{\lambda}{2}$ (of 5 points)	nts)	B.2	8	(of 21 points)
A.3 (of 5 points)		B.3	2.5	(of 5 points)
(**********************************	/	B.4	1.5	(of 5 points)
C. Equipment		B.5	1.5	(of 5 points)
(Total of 10 Points)		B.6	1.5	of 5 points)
C.1 3 (of 6 points)	nts)	B.7	2	of 5 points)
$\overline{\text{C.2}}$ (of 1 points)				_ ` 1 /
$\overline{}$ C.3 $\overline{}$ (of 3 points)		D. Facul	ty and Staff	Expertise
· ·	•	(Total of	12 Points)	-
E. Economic and/or Cultural		D.1	5	(of 12 points)
Development and Impact				_
(Total of 12 Points)				
E.1 1 (of 2 points)	nts)	F. Previo	ous Support	Fund Awards
E.2a ${}$ (For S/E))	(No Point	s Assigned)	
or (of 10 pc	ints)	G.1 Yes	X	No
E.2b (For NS/	NE)			
	_			
G. Total Score: 42	(of 100 points)			
(Note: Proposals with a total sc	ore below 70 will n	ot be recomme	nded for fun	ding.)
SPECIFIC BUDGETARY	Requested Amou	ınt:	\$129,402	_
RECOMMENDATIONS:	Recommended A	mount:	\$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 seeks to acquire a modern LC-MS with BOD and oxygen analyzers to replace dated instruments that are used by a number of labs for the Environmental Science program. This instrumentation will additionally augment research activities which are deeply entwined with environmental, industrial, and cultural issues that are unique to the region. The objectives and timeline are clear. However, the work plan would be stronger if specific details were provided regarding what lab experiments would be enhanced or what research projects would utilize the equipment. The university has provided a modest match for upkeep, and the PI proposes to obtain additional maintenance funds through grants. Only Biology courses in the Environmental Biology Concentration are listed for curricular enhancement. The PI could have collaborated with Chemistry faculty to impact the enhancement of this eligible discipline. The Biological Sciences or Earth and Environmental Sciences competitions are more appropriate competitions for this proposal. Funding is not recommended.

	PRO	POSAL NU	MBER:	17CHE-17
INSTITUTION: Nicholls	State University			
TITLE OF PROPOSAL:	Enhancing Undergrad	uate Biologic	al Molecula	ar Structure and
	Dynamics Education a			
	NMR probe and a Lur			
DDINGIDAL INVESTIGATO		•		
PRINCIPAL INVESTIGATO	R: Matthew	Marlow		
A. The Current Situation		B. The En	hancement	t Plan
(Total of 10 Points)		(Total of 56	6 Points)	
A.1 Yes x No		B.1	7	(of 10 points)
A.2 $\frac{4.5}{4.5}$ (of 5 pc	pints)	B.2	17	(of 21 points)
A.3 ${4}$ (of 5 pc		B.3	3.5	(of 5 points)
		B.4	4	(of 5 points)
C. Equipment		B.5	4.5	(of 5 points)
(Total of 10 Points)		B.6	4	(of 5 points)
C.1 5.5 (of 6 pc	oints)	B.7	3.5	(of 5 points)
C.2 1 (of 1 pc	oint)	•		<u>-</u>
$\overline{}$ C.3 $\overline{}$ (of 3 pc	oints)	D. Faculty	and Staff	Expertise
		(Total of 12	2 Points)	•
E. Economic and/or Cultural		D.1	9.5	(of 12 points)
Development and Impact		•		_
(Total of 12 Points)				
E.1 1.5 (of 2 pc	oints)	F. Previou	is Support	Fund Awards
E.2a 9.5 (For \hat{S}/\hat{I}		(No Points	Assigned)	
or (of 10 p	points)	G.1 Yes	X	No
E.2b (For NS	S/NE)	•		
G. Total Score: 82	(of 100 points)			
(Note: Proposals with a total s	score below 70 will not b	e recommen	ded for fur	nding.)
SPECIFIC BUDGETARY	Requested Amount:		\$99,356	_
RECOMMENDATIONS:	Recommended Amou	unt:	\$0	<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.)

This proposal seeks to acquire a new, more sensitive NMR probe, and a new fluorimeter, both for the purpose of enhancing educational and research activities in Nicholls' new Biochemistry concentration. These instruments would clearly be beneficial, and the modest institutional match is a plus. The work plan does not clearly delineate how the large numbers of students in biochemistry and organic chemistry will be able to access the NMR for instructional and research experiments that will take several hours or even days. The objectives were not entirely tied to the goals. It is not necessary to actually have the capability of running NMR on large molecules to teach NMR theory (in particular 2D NMR), nor is a fluorimeter necessary to teach luminescence. It is not clearly established what the shortcomings of the existing fluorimeter are for the proposed instructional lab experiments. Funding is not recommended.

	PROPOSA	L NUMBER:	18CHE-17
INSTITUTION: Northweste	rn State University		
TITLE OF PROPOSAL:	Enriching Chemistry Undergr	aduate Courses v	vith Fluorescence
_	Spectrophotometer	addate Courses v	viii i idorescence
PRINCIPAL INVESTIGATOR:	Shreyashi Gangu	ıly	
A. The Current Situation	В. Т	he Enhancemen	t Plan
(Total of 10 Points)	(Tota	of 56 Points)	
A.1 Yes x No	B.1	6	(of 10 points)
A.2 $\overline{3}$ (of 5 points	B.2	14	(of 21 points)
A.3 ${3}$ (of 5 points	B.3	4	(of 5 points)
	B.4	4	(of 5 points)
C. Equipment	B.5	4	(of 5 points)
(Total of 10 Points)	B.6	4	(of 5 points)
C.1 4 (of 6 points	s) B.7	3	(of 5 points)
C.2 (of 1 point			_ (* * 1 * * **)
$\overline{\text{C.3}}$ $\overline{\text{C.3}}$ (of 3 points		aculty and Staff	Expertise
(er b perm		of 12 Points)	
E. Economic and/or Cultural	D.1	9	(of 12 points)
Development and Impact	D .1		_ (or 12 points)
(Total of 12 Points)			
E.1 1 (of 2 points)	s) F P	revious Support	Fund Awards
E.2a (67.2 points)		Points Assigned)	1 unu 11warus
or $\frac{1}{1000}$ (of 10 points)			No x
E.2b (For NS/N	· ·	105	
(1.01.113/11.	L)		
G. Total Score: 70	(of 100 points)		
70	(or roo points)		
(Note: Proposals with a total score	re below 70 will not be recor	nmended for fui	nding.)
SPECIFIC BUDGETARY	Requested Amount:	\$22,167	_
RECOMMENDATIONS:	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 seeks to install a fluorescence spectrophotometer in the general chemistry laboratories that would strengthen the current state-of-the-art instrumentation facilities. The rationale for this equipment request is solid and the goals and objectives are clearly defined and appear to be measurable. However, the work plan lacks essential information. It is not clear what experiments will be conducted or how the curriculum would be impacted. Some proposal sections were not adequately addressed. The evaluation component is vague. Funding is not recommended.

	PRO	OPOSAL NUM	BER:	19CHE-17
INSTITUTION: Northwe	estern State University			
TITLE OF PROPOSAL:	Enhancement of Und	ergraduate Schol	larchin in	Chemistry through
TITLE OF TROTOSAL.	Nuclear Magnetic Re			Chemistry through
		•	зсору	
PRINCIPAL INVESTIGATOR	R: Jennifer	Hill		
A. The Current Situation		B. The Enha	ancement	: Plan
(Total of 10 Points)		(Total of 56 I		
A.1 Yes x No		B .1	7.5	(of 10 points)
A.2 (of 5 pc	oints)	B.2	13.5	of 21 points)
A.3 $\frac{4.5}{}$ (of 5 pc		B.3	4	(of 5 points)
``	,	B.4	2	(of 5 points)
C. Equipment		B.5	2	(of 5 points)
(Total of 10 Points)		B.6	2.5	(of 5 points)
C.1 5 (of 6 pc	oints)	B.7	4.5	(of 5 points)
C.2 (of 1 pc				_ ` _ `
$\overline{}$ (of 3 pc	oints)	D. Faculty a	nd Staff	Expertise
		(Total of 12 F	Points)	
E. Economic and/or Cultural		D.1	9	(of 12 points)
Development and Impact				_
(Total of 12 Points)				
E.1 1.5 (of 2 pc	oints)	F. Previous	Support	Fund Awards
E.2a 8.5 (For S/I	E)	(No Points A	ssigned)	
or (of 10 p	points)	G.1 Yes		No x
E.2b (For NS	S/NE)			-
G. Total Score: 72.5	(of 100 points)			
(Note: Proposals with a total s	==- score below 70 will not	be recommende	d for fur	nding.)
SPECIFIC BUDGETARY	Requested Amount:	9	\$98,300	
RECOMMENDATIONS:	Recommended Amo	ount:	\$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 seeks to acquire a top-performing desk-top NMR instrument to meet the goal of a newly approved BS Environmental Chemistry program. The rationale is well defined and the objectives are clear and measurable. However, essential details are lacking. The timeline is not realistic. It is not clear what the broader impacts of this instrument are beyond the Organic Chemistry I lab. The work plan does not clearly state which experiments will utilize the NMR or how the instrument will augment research activities. The potential for forging collaborations with other units is not explored. A case could be made regarding the current 40 MHz NMR instrument and the selection of a 60 MHz versus an 80 MHz table-top version. This proposal could be strengthened substantially by addressing the technical aspects of the proposal criteria. Funding is not recommended.

		PROPOSAL NUI	MBER:	20CH	.E-17
INSTITUTION:	Northwestern State Uni	versity			
TITLE OF PROPOSA	L: Establishme	ent of a Chromatograph	ny Suite for	Monitoring C	hemical
	'Fates' and I	Determining Chemical	Structure in	Science Labo	oratories
PRINCIPAL INVESTI	GATOR:	Christopher Lyles			
A. The Current Situati	ion	B. The En	hancement	Plan	
(Total of 10 Points)		(Total of 56	6 Points)		
A.1 Yes x	No	B.1	8	(of 10 point	s)
A.2 5	(of 5 points)	B.2	16	of 21 point	s)
A.3 5	(of 5 points)	B.3	5	(of 5 points)	
		B.4	3	(of 5 points))
C. Equipment		B.5	4	(of 5 points)	
(Total of 10 Points)		B.6	5	(of 5 points))
C.1 6	(of 6 points)	B.7	3	(of 5 points))
C.2 1	(of 1 point)	•		_	
C.3 3	(of 3 points)	D. Faculty	and Staff	Expertise	
		(Total of 12	2 Points)		
E. Economic and/or Cu	ultural	D.1	11	(of 12 point	s)
Development and Impa	nct	•		_	
(Total of 12 Points)					
E.1 2	(of 2 points)	F. Previou	s Support	Fund Awards	S
E.2a 10	(For S/E)	(No Points	Assigned)		
or	(of 10 points)	G.1 Yes		No	X
E.2b	(For NS/NE)	- -		_	
G. Total Score:	87 (of 100 poi	nts)			
(Note: Proposals with	a total score below 70	will not be recomme	nded for fu	nding.)	
SPECIFIC BUDGETA RECOMMENDATION	_	Amount: ded Amount:	\$108,176 \$0	_	
RECOMMENDATION	is. Recommen	ucu Allivuliti	ΦU	_	

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 School of Biological and Physical Sciences seeks to acquire a suite of chromatography instruments (Agilent 5977B GC/MS with a 7820 GC and an autosampler, Agilent G3581A 490 Micro GC, Metrohm 883 Basic IC plus) for the core research facility. They will be used to enhance instructional lab courses in both Chemistry and Biology, faculty research with undergraduates, and the Louisiana School for Math, Science and the Arts. The goals are straightforward and the objectives are measurable. The equipment would substantially benefit the newly approved BS in Environmental Chemistry program. Details are lacking for how the instrumentation will be implemented in the curricula. Examples of new chemistry laboratory activities are not presented. The work plan and evaluation plan lack details. With limited resources, funding is not recommended.

Ph	ROPOSAL NUMBER:	21CHE-17
INSTITUTION: Northwestern State University		
TITLE OF PROPOSAL: Microwave Plasma	Atomic Emission Spectron	meter for
	Physical Science Program	
·		-
PRINCIPAL INVESTIGATOR: Chad T	hibodeaux	
A. The Current Situation	B. The Enhancemen	ıt Plan
(Total of 10 Points)	(Total of 56 Points)	
A.1 Yes x No	B.1 10	(of 10 points)
A.2 (of 5 points)	B.2 17	(of 21 points)
$\overline{5}$ (of 5 points)	B.3 4	(of 5 points)
• • • • • • • • • • • • • • • • • • • •	B.4 5	(of 5 points)
C. Equipment	B.5 5	(of 5 points)
(Total of 10 Points)	B.6 4	(of 5 points)
C.1 6 (of 6 points)	B.7 2	(of 5 points)
$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$		<u> </u>
$\overline{3}$ (of 3 points)	D. Faculty and Staff	f Expertise
	(Total of 12 Points)	•
E. Economic and/or Cultural	D.1 10	(of 12 points)
Development and Impact		_ `
(Total of 12 Points)		
E.1 2 (of 2 points)	F. Previous Support	t Fund Awards
E.2a ${}$ (For S/E)	(No Points Assigned)	
or (of 10 points)	G.1 Yes	No x
E.2b (For NS/NE)	-	_
G. Total Score: 87 (of 100 points)		
(Note: Proposals with a total score below 70 will not	t be recommended for fu	nding.)
SPECIFIC BUDGETARY Requested Amount	t: \$64,689	
RECOMMENDATIONS: Recommended Am		

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 seeks funding to obtain an Agilent 4200 MP-AES atomic spectroscopy instrument to enhance instructional and research capabilities. The rationale for the request is compelling. The administrative commitment to grow the Chemistry program is clearly established. The equipment would have immediate impact on a department that currently has limited capabilities in this area. The selection process for the equipment was thoughtful and efficient. However, technical details are lacking for assessing expected project outcomes. Though compelling, with limited resources available, funding is not recommended.

		PROPOSAL N	UMBER:	22CHE-17
INSTITUTION: N	unez Community Colle	ege		
TITLE OF PROPOSAL	Revitalizing	Chemistry		
PRINCIPAL INVESTIG	SATOR:	Stephen Waddell		
A. The Current Situatio	n		Enhancemen	t Plan
(Total of 10 Points)			56 Points)	
A.1 Yes x	No	B.1	6	(of 10 points)
	of 5 points)	B.2	14	(of 21 points)
A.3 4 (c	of 5 points)	B.3	4	(of 5 points)
		B.4	4	(of 5 points)
C. Equipment		B.5	4	of 5 points)
(Total of 10 Points)		B.6	4	(of 5 points)
C.1 4 (c	of 6 points)	B.7	2	of 5 points)
$\overline{}$ C.2	of 1 point)			_
C.3 2 (0)	of 3 points)	D. Facu	lty and Staff	Expertise
	•	(Total of	12 Points)	•
E. Economic and/or Cul	tural	D.1	8	(of 12 points)
Development and Impac	t			_ ` ' '
(Total of 12 Points)				
	of 2 points)	F. Previ	ous Support	Fund Awards
	For S/E)		ts Assigned)	
`	of 10 points)	G.1 Yes		No
	For NS/NE)	0,1 10,		
(-	,			
G. Total Score:	67 (of 100 poin	its)		
(Note: Proposals with a	total score below 70 v	will not be recommo	ended for fui	nding.)
SPECIFIC BUDGETAR RECOMMENDATIONS		Amount: led Amount:	\$280,844 \$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 seeks to initiate improvements in Chemistry course offerings to enhance recruitment and retention. Nunez has already accomplished a commendable amount of recovery given the total devastation that the college experienced during Hurricane Katrina. Although there is still a significant need for science lab spaces and equipment, this proposal is too ambitious and the budget request is out of proportion to the available funds. It also lacks details on how the equipment (FTIR and two HPLC systems) could be used to enrich the Chemistry curriculum for enhanced student training and success. Moreover, the evaluation plan lacks details on expected programmatic and educational impacts. This proposal could be strengthened by narrowing the scope. It would also be helpful to link the curricular needs to unmet needs for skilled workers in the local economy. Funding is not recommended.

		PROPOSAL NUI	MBER:	23CHE-17
INSTITUTION: Souther	eastern Louisiana U	Jniversity		
TITLE OF PROPOSAL:	Modernization	n of Separation Scien	nces and Ato	omic Spectroscopy
				n and Undergraduate
		outheastern Louisian		
PRINCIPAL INVESTIGATO	-	illip Voegel		,
I KINCH AL INVESTIGATO	JK. <u>FII</u>	mip voegei		
A. The Current Situation		B. The En	hancement	Plan
(Total of 10 Points)		(Total of 56		
A.1 Yes x No)	B .1	9 ^	(of 10 points)
A.2 5 (of 5 p	points)	B.2	19	(of 21 points)
	points)	B.3	4	(of 5 points)
		B.4	4	(of 5 points)
C. Equipment		B.5	4.5	(of 5 points)
(Total of 10 Points)		B.6	3.5	(of 5 points)
C.1 6 (of 6 p	points)	B.7	5	(of 5 points)
$C.2$ 1 (of 1 \mathfrak{g}		-		_ ` _ ^
	points)	D. Faculty	and Staff	Expertise
	,	(Total of 12		•
E. Economic and/or Cultura	l	D.1	10	(of 12 points)
Development and Impact		-		<u> </u>
(Total of 12 Points)				
	points)	F. Previou	is Support l	Fund Awards
E.2a $\frac{10}{10}$ (For S		(No Points		
	points)	G.1 Yes	X	No
	NS/NE)	-		
	,			
G. Total Score: 91	(of 100 points	s)		
(NI / D)		91 41	1 10 0	11.
(Note: Proposals with a total	score below 70 w	all not be recomme	nded for fu	nding.)
SPECIFIC BUDGETARY	Requested A	mount:	\$135,678	
RECOMMENDATIONS:	Recommende	-	\$87,071	-
TIE C CHAINE (BILLIOI 10)	11000mmenu(407,071	_

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 seeks to acquire three pieces of equipment: a microwave plasma atomic emission spectrometer, HPLC, and Capillary Electrophoresis system. In the case of the capillary electrophoresis (CE) system, this will be a new addition to the suite of instruments available. These pieces will not only enhance undergraduate instruction and research opportunities, but will also help the department maintain ACS accreditation. The goals and objectives are strong, very detailed, and clearly measurable. In addition, the work plan was very well executed, with clear duties and attendant timelines described. The implementation of the project into the existing curriculum is clearly described. While this request is ambitious in scope, the replacement of the two oldest instruments would save the department a large sum of money currently used for upkeep. Because of limited funds available, partial funding of \$87,071 is recommended for the spectrometer and HPLC. The institutional match may be reduced proportionately.

		PROPOSAL NU	MBER:	24CHE-17
INSTITUTION:	Southern University	at New Orleans		
TITLE OF PROPOS	SAL: Request	for Fourier Transform-Infi	rared Specti	rometry [FT-IR] to
	Enhance	the Programs in the Depar	rtment of N	atural Sciences
PRINCIPAL INVES	TIGATOR:	Nebiat Sisay		
A. The Current Situ	ation	B. The Er	nhancemen	t Plan
Total of 10 Points)		(Total of 5	6 Points)	
A.1 Yes x	No	B.1	8.5	(of 10 points)
A.2 3.5	(of 5 points)	B.2	17	(of 21 points)
A.3 4	(of 5 points)	B.3	4	(of 5 points)
		B.4	4	(of 5 points)
C. Equipment		B.5	3.5	(of 5 points)
Γotal of 10 Points)		B.6	4	(of 5 points)
2.1 5	(of 6 points)	B.7	4	(of 5 points)
2.2	(of 1 point)			_
2.3			y and Staff	Expertise
	_	(Total of 1	2 Points)	•
. Economic and/or	Cultural	D.1	10	(of 12 points)
evelopment and Im	pact			_ `
Total of 12 Points)	•			
2.1	(of 2 points)	F. Previou	us Support	Fund Awards
$\frac{1}{2}$.2a $\frac{7}{2}$	$$ (For $\overline{S/E}$)	(No Points	Assigned)	
r	(of 10 points)	G.1 Yes	X	No
E.2b	(For NS/NE)			_
G. Total Score:	80 (of 100)	points)		
Note: Proposals wit	<u>, </u>	70 will not be recommen	ded for fu	nding.)
SPECIFIC BUDGET	TARY Request	ed Amount:	\$63,655	
RECOMMENDATION	ONS: Recomm	nended 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 seeks to acquire a Mid-IR FTIR instrument with accessories for metered gas cells and a nitrogen generator to enhance curricula, student learning, and faculty pedagogy. While the goals and objectives are measurable, the work plan lacks essential information. It is not clear what experiments the new equipment could handle that the existing equipment cannot. The PI could highlight such measurements and research project activities and relate them to the type of equipment requested. The evaluation plan would benefit from this information as well. Funding is not recommended.

		PROPOSAL NUM	IBEK:	25CHE-17
INSTITUTION:	Tulane University			
TITLE OF PROPOS	Enhancem	nent of the Tulane X-ray C	rystallogra	aphy Laboratory
PRINCIPAL INVES	TIGATOR:	Joel Mague		
A. The Current Situ	ation	B. The Enh		t Plan
(Total of 10 Points)	NI.	(Total of 56	. *	(-£10 :- (-)
A.1 Yes x	No No	$ \frac{B.1}{B.2}$ $-$	6	(of 10 points)
A.2 3	(of 5 points)	B.2	2	(of 21 points)
A.3 4.5	(of 5 points)	B.3	5	(of 5 points)
~		B.4	4.5	(of 5 points)
C. Equipment		B.5	4	(of 5 points)
(Total of 10 Points)		B.6	3	(of 5 points)
C.1 3.5	of 6 points)	B.7	3	(of 5 points)
C.2 1	(of 1 point)	_		
C.3 3	(of 3 points)	D. Faculty	and Staff	Expertise
		(Total of 12	Points)	
E. Economic and/or	Cultural	D.1	12	(of 12 points)
Development and Im	pact	_		_ `
(Total of 12 Points)	•			
È.1 2	(of 2 points)	F. Previous	Support	Fund Awards
E.2a 5.5	- (For S/E)	(No Points A		
or	of 10 points)	G.1 Yes	X	No
E.2b	(For NS/NE)	_		
	_			
G. Total Score:	62 (of 100 pc	oints)		
(Note: Proposals wit	th a total score below 7	0 will not be recommend	ed for fu	nding.)
SPECIFIC BUDGET		_	\$200,000	<u> </u>
RECOMMENDATION	ONS: Recomme	ended Amount:	\$0	<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.)

This proposal seeks to enhance Tulane's X-ray crystallography facility. No clear justification for funding is presented. It lacks clearly defined goals and measurable, obtainable objectives. The work plan does not describe any activities or attendant timelines to ensure that the goals are met. The proposal sections are not addressed in the order stipulated by the RFP, which made it confusing to read. Funding is not recommended.

		PROPOSAL NO	JMBEK:	26CHE-17
INSTITUTION: Tu	lane University			
TITLE OF PROPOSAL:	Enhancing	g Spectroscopic Measu	rements at I	nterfaces
PRINCIPAL INVESTIG	ATOR:	Igor Rubtsov		
A. The Current Situation	1	B. The E	nhancemen	t Plan
(Total of 10 Points)		(Total of :	56 Points)	
A.1 Yes x	No	B.1	9	(of 10 points)
A.2 5 (o	f 5 points)	B.2	20	(of 21 points)
	f 5 points)	B.3	5	of 5 points)
	1 ,	B.4	4	(of 5 points)
C. Equipment		B.5	5	(of 5 points)
(Total of 10 Points)		B.6	5	(of 5 points)
	f 6 points)	B.7	4	(of 5 points)
	f 1 point)		-	_ ` ' '
`	f 3 points)	D. Facul	ty and Staff	Expertise
``	1 /		12 Points)	•
E. Economic and/or Cult	ural	D.1	11	(of 12 points)
Development and Impact				_ (*
(Total of 12 Points)				
	f 2 points)	F. Previo	ous Support	Fund Awards
`	for S/E)		s Assigned)	
,	f 10 points)	G.1 Yes		No
	for NS/NE)			_
	,			
G. Total Score:	94 (of 100 pc	oints)		
(Note: Proposals with a t	otal score below 7	0 will not be recomm	ended for f	unding.)
SPECIFIC BUDGETARY	Y Requested	d Amount:	\$104,914	

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.)

Recommended Amount:

\$104,914

RECOMMENDATIONS:

The Tulane Laser Laboratory seeks to enhance the performance capabilities of two spectroscopy instruments. The upgrades will significantly enhance research for faculty and at the graduate and undergraduate levels. The team has established a very progressive laboratory with a focus on time-resolved spectroscopy. This proposal is significant for initiating various pertinent partnerships to secure funding from external agencies. Additionally, it will have a broad impact on students and faculty research in Louisiana. Full funding is recommended.

		PROPOSAL NUM	BER:	27CHE-17
INSTITUTION:	University of Holy Cro	ss		
TITLE OF PROPOS	SAL: Chemistry E	Education and Outreach In	nfrastructi	ure Project
PRINCIPAL INVES	TIGATOR:	Darryl Holliday		
A. The Current Situ	ation	B. The Enh	ancemen	t Plan
(Total of 10 Points)		(Total of 56)	Points)	
A.1 Yes x	No	B.1	6	(of 10 points)
A.2 1.5	(of 5 points)	B.2	10	(of 21 points)
A.3 3	(of 5 points)	B.3	3	(of 5 points)
	_	B.4	2.5	(of 5 points)
C. Equipment		B.5	3	(of 5 points)
(Total of 10 Points)		B.6	2	(of 5 points)
C.1 4	(of 6 points)	B.7	3	(of 5 points)
C.2 1	of 1 point)	_		<u> </u>
C.3 3	(of 3 points)	D. Faculty	and Staff	Expertise
	_ ` ' '	(Total of 12)		•
E. Economic and/or	Cultural	D.1	6	(of 12 points)
Development and Im		· —		_ (
(Total of 12 Points)				
E.1 2	(of 2 points)	F. Previous	Support	Fund Awards
E.2a 8	$-\frac{(For S/E)}{(For S/E)}$	(No Points A		
or	$-\frac{(1010/2)}{(\text{of } 10 \text{ points})}$	G.1 Yes	133181104)	No x
E.2b	(For NS/NE)			
	(1 01 1 (5/1 (2)			
G. Total Score:	58 (of 100 poi	nta)		
G. Total Score.	01 100 poi	nts)		
(Note: Proposals wit	th a total score below 70	will not be recommende	ed for fur	nding.)
SPECIFIC BUDGET	TARY Requested	Amount:	\$100,515	
RECOMMENDATION	ONS: Recommen	ded 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 seeks funds to acquire industry-specific chemistry equipment for enhancing student training that assists industries with chemical analysis services. The proposal's description of the project primarily consists of background information that is too broad and is not pertinent to the criteria for assessing projects proposing purchase of instructional and research equipment. Therefore, the relevance and significance of this proposal is difficult to evaluate. It lacks essential information to establish a correlation between the enhancement activities and the type of equipment requested. The work plan lacks clarity and is ambitious for a one-year project. If the students conduct chemical analysis for local industry, significant time and effort would be needed to establish standard procedures to meet industry standards. This proposal could be strengthened by narrowing the scope of the project to articulate how the requested equipment will be effectively used to enhance curricular activities and student training. Funding is not recommended.

		PROPOSAL NUI	MBER:	28CHE-17
INSTITUTION:	University of Louisi	ana at Lafayette		
TITLE OF PROPOS	AL: Acquisit	ion of a Bench Top NMR	Spectrome	eter for Integration into
		nistry Curriculum	~P*****	
PRINCIPAL INVES	ΓIGATOR:	August Gallo		
A. The Current Situa	ation	B. The En	hancemen	nt Plan
(Total of 10 Points)		(Total of 56	6 Points)	
A.1 Yes x	No	B .1	9 ´	(of 10 points)
A.2 5	(of 5 points)	B.2	17	- (of 21 points)
A.3 5	(of 5 points)	B.3	4	(of 5 points)
	_ \ 1 /	B.4	5	- (of 5 points)
C. Equipment		B.5	4	(of 5 points)
(Total of 10 Points)		B.6	4	- (of 5 points)
C.1 5.5	(of 6 points)	B.7	4.5	- (of 5 points)
C.2 1	of 1 point)	-		(F
C.3 2	(of 3 points)	D. Faculty	and Staff	f Expertise
	_ (*** P******)	(Total of 12		
E. Economic and/or	Cultural	D.1	12	(of 12 points)
Development and Im				(or 12 points)
(Total of 12 Points)	puer			
E.1 2	(of 2 points)	F. Previou	is Support	Fund Awards
E.2a 9	(For S/E)	(No Points		
or	- (of 10 points)	G.1 Yes	X	No
E.2b	(For NS/NE)	G.1 1 0 5	71	
	_ (- 32 1 (2)			
G. Total Score:	89 (of 100	points)		
(Note: Proposals wit	h a total score below	70 will not be recomme	nded for f	unding.)
SPECIFIC RUDGET		ad Amount:	\$60 175	<i>5</i> /

SPECIFIC BUDGETARY Requested Amount: \$60,175 **RECOMMENDATIONS:** Recommended Amount: \$60,175

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 requests a bench-top NMR spectrometer for education and research. The equipment would augment instrumentation previously supported by the BoRSF. The objectives are clearly stated and measurable with appropriate assessment described, and the work plan is well described. The equipment will greatly enhance the ability of faculty to incorporate instrumentation into the undergraduate curricula. It is unclear how it could be effectively located for the proposed use across multiple instructional laboratories. The work plan could provide more details on experiment protocols. It is not clear how the existing 400 MHz NMR spectrometer will be used to complement the benchtop model. The requested piece is cost-efficient. Full funding is recommended.

		P	ROPOSAL NUM	MBER:	29CHE-17
INSTITUTION:	University	of Louisiana at Laf	ayette		
TITLE OF PROP	OSAL ·	Introduction of UL	Lafavette's Cher	nietry Proc	ram to Microwave
TITLE OF TROI	OSAL.	Assisted Technique		instry i rog	rain to wherewave
PRINCIPAL INV	ESTIGATOR:	Thoma	as Junk		
A. The Current S	ituation		B. The En	hancemen	t Plan
(Total of 10 Points))		(Total of 56	Points)	
A.1 Yes x	No		B.1	8.5	(of 10 points)
A.2 ${}$ 3.5	(of 5 poin	ts)	B.2	17.5	(of 21 points)
A.3 5	(of 5 poin		B.3	3	(of 5 points)
		,	B.4	4	(of 5 points)
C. Equipment			B.5	3.5	(of 5 points)
(Total of 10 Points))		B.6	3	(of 5 points)
C.1 4	of 6 poin	its)	B.7	4	$\frac{1}{\text{(of 5 points)}}$
C.2 1	(of 1 poin		<u>-</u>		_ (** * F ******)
C.3 3	(of 3 poin		D. Faculty	and Staff	Expertise
	(or a poin		(Total of 12		zaper vise
E. Economic and	or Cultural		D.1	12	(of 12 points)
Development and			D .1	12	_ (or 12 points)
(Total of 12 Points)					
E.1 1	of 2 poin	its)	F Previou	s Sunnort	Fund Awards
E.2a 9	(For S/E)		(No Points		i unu itwaius
or <u> </u>	(rof 3/E) (of 10 poi		G.1 Yes	Assigned)	No
E.2b	(For NS/I		0.1 168	Λ	
	(1.01.1/2)	NL)			
G. Total Score:	82	(of 100 points)			
G. Total Score.	02	(or roo points)			
(Note: Proposals	with a total sco	ore below 70 will no	ot be recommend	ded for fu	nding.)
SPECIFIC BUDG	ETARY	Requested Amoun	ıt:	\$76,120	
RECOMMENDA'		Recommended Ar	_	\$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 seeks to acquire two laboratory microwave systems to support Chemistry teaching laboratories with modern microwave-irradiated processes, which would also reduce chemical waste generation in instructional labs. While the rationale and work plan are well defined, the request for a second unit for limited instructional use is insufficiently justified. The incorporation of microwave technology into the organic chemistry labs is well conceived and reflects current trends. Some additional details on how it could be used to enhance teaching pedagogy, such as guided inquiry learning and incorporation of green chemistry principles, would improve the proposal. Funding is not recommended.

	PROPOSAL NUMBER:	30CHE-17
INSTITUTION: University of	of Louisiana at Lafayette	
	Expanding the Application of Computational and Research at UL Lafayette	Chemistry in Teaching
PRINCIPAL INVESTIGATOR:	Kathleen Knierim	
A. The Current Situation (Total of 10 Points)	B. The Enhancemen (Total of 56 Points)	t Plan
A.1 Yes x No	B.1 10	(of 10 points)
A.2 (of 5 points		(of 21 points)
A.3 5 (of 5 points	,	(of 5 points)
(coop promise	B.4 5	(of 5 points)
C. Equipment	B.5 4	(of 5 points)
(Total of 10 Points)	B.6 4	(of 5 points)
C.1 6 (of 6 points		(of 5 points)
C.2 (of 1 point)	,	_ (= F====,
C.3 (of 3 points		Expertise
((Total of 12 Points)	r
E. Economic and/or Cultural	D.1 10	(of 12 points)
Development and Impact	<u> </u>	
(Total of 12 Points)		
E.1 2 (of 2 points	F. Previous Support	Fund Awards
E.2a $\frac{10}{10}$ (For S/E)	(No Points Assigned)	
or (of 10 poin		No
E.2b (For NS/NI		
G. Total Score: 88.5	(of 100 points)	
(Note: Proposals with a total scor	e below 70 will not be recommended for fu	ınding.)
SPECIFIC BUDGETARY	Requested Amount: \$11,255	

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.)

Recommended Amount:

\$11,255

RECOMMENDATIONS:

This proposal seeks to upgrade the computational chemistry infrastructure through the acquisition of a site license for the newest versions of Gaussian and Gauss View, as well as two computers. This would greatly enhance accessibility to the computational program; by extension, research productivity should also increase. Overall, the work plan is well executed with easily measurable objectives. One concern is the use of the Windows version of Gaussian as a training tool for teaching students to prepare input files and to read output files from a supercomputer, as these files are very different. The impact will be significant relative to the small request. Full funding is recommended.

	PROPOSAL NU	MBER:	31CHE-17
INSTITUTION: University of Lo	ouisiana at Lafayette		
TITLE OF PROPOSAL: Enha	ancement of Metal Analysis by	Inductively	Coupled Plasma
Opti	cal Emission Spectrometry in	Education a	nd Research
PRINCIPAL INVESTIGATOR:	Febee Louka		
A. The Current Situation	B. The E	nhancemen	t Plan
(Total of 10 Points)	(Total of 5	66 Points)	
A.1 Yes x No	B .1	9 ´	(of 10 points)
A.2 ${4.5}$ (of 5 points)	B.2	19	(of 21 points)
A.3 $\frac{1}{5}$ (of 5 points)	B.3	4	(of 5 points)
(1 /	B.4	4.5	(of 5 points)
C. Equipment	B.5	2	(of 5 points)
(Total of 10 Points)	B.6	4.5	(of 5 points)
C.1 5 (of 6 points)	B.7	3.5	(of 5 points)
C.2 (of 1 point)			_ ` ' ' '
$\overline{2}$ (of 3 points)	D. Facult	y and Staff	Expertise
(1 /	(Total of 1	•	1
E. Economic and/or Cultural	D.1	11	(of 12 points)
Development and Impact			_ (
(Total of 12 Points)			
E.1 2 (of 2 points)	F. Previo	us Support	Fund Awards
E.2a ${9}$ (For S/E)		Assigned)	
or (of 10 points)	G.1 Yes	X	No
E.2b (For NS/NE)			
(
G. Total Score: 86 (of	100 points)		
(Note: Proposals with a total score be	low 70 will not be recommen	nded for fu	nding.)
SPECIFIC BUDGETARY Req	uested Amount:	\$98,803	_
RECOMMENDATIONS: Reco	ommended 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 seeks to acquire an ICP-OES. The rationale is clearly established. The piece will enhance the current equipment, and provide additional training for students in research and teaching labs that is highly relevant to the Louisiana workforce. Several departments will benefit. The objectives are clear and measurable, and the work plan is well executed with an appropriate timeline to complete the proposed objectives. The impact on student quality is not addressed, and the impact on faculty development is not clearly established. The proposal mentions new hires, but their relation to this equipment is not immediately obvious. With limited resources available, funding is not recommended.

	PROPOSAL NUMBER:	32CHE-17
INSTITUTION: University of	Louisiana at Lafayette	
	tegrating Thermal Analyzer and Thermal Te	chniques into
	hemistry Teaching and Research Laboratorie	
	ndergraduates Majoring in Chemistry and Ch	
		lennear Engineering
PRINCIPAL INVESTIGATOR:	Salah Massoud	
A. The Current Situation	B. The Enhancemen	t Plan
(Total of 10 Points)	(Total of 56 Points)	
A.1 Yes <u>x</u> No	B.1 7.5	of 10 points)
A.2 $\overline{5}$ (of 5 points)	B.2 17	(of 21 points)
A.3 $\frac{4.5}{}$ (of 5 points)	B.3 4	of 5 points)
	B.4 5	(of 5 points)
C. Equipment	B.5 4	(of 5 points)
(Total of 10 Points)	B.6 4	(of 5 points)
C.1 5 (of 6 points)	B.7 3	(of 5 points)
C.2 (of 1 point)		_ `
$\overline{C.3}$ (of 3 points)	D. Faculty and Staff	Expertise
\ 1 /	(Total of 12 Points)	•
E. Economic and/or Cultural	D.1 10	(of 12 points)
Development and Impact		_ ` ' '
(Total of 12 Points)		
E.1 2 (of 2 points)	F. Previous Support	Fund Awards
E.2a ${8}$ (For S/E)	(No Points Assigned)	
or (of 10 points		No
E.2b (For NS/NE)		
(` :: ::)		
G. Total Score: 83 (c	of 100 points)	
d. Total score.	or 100 points)	
(Note: Proposals with a total score	below 70 will not be recommended for fur	nding.)
SPECIFIC BUDGETARY R	equested Amount: \$44,831	
	ecommended Amount: \$0	_
	Ψ0	

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 seeks to acquire an integrated STA thermal analyzer to enhance the undergraduate curriculum in thermal analyses and enhance faculty research capabilities. It provides informative background information and establishes how the instrument would be incorporated into some lab courses. However, the significance of some of the experiments is unclear. Additional information on how the equipment would be used in faculty research and collaborations would be helpful. This proposal could be strengthened by including letters of endorsement from mentioned collaborating department representatives and researchers. Many Biology and Engineering courses are listed but details are lacking on how the requested equipment will be implemented to achieve project goals. Funding is not recommended.

RATING FORM FOR ENHANCEMENT INSTRUCTIONAL AND RESEARCH EQUIPMENT REQUESTS

	j	PROPOSAL NU	MBER:	33CHE-17
INSTITUTION: Universi	ty of Louisiana at La	fayette		
TITLE OF PROPOSAL:	Strengthen Polym			
	Enhance Undergra	aduate Teaching	and Researc	h
PRINCIPAL INVESTIGATOR	Wu 2	Ku		
A. The Current Situation		B. The Er	nhancement	t Plan
(Total of 10 Points)		(Total of 5	6 Points)	
A.1 Yes x No		B.1	7	(of 10 points)
A.2 $\overline{3}$ (of 5 po	ints)	B.2	18	of 21 points)
A.3 ${}$ 4 (of 5 po	ints)	B.3	4	(of 5 points)
		B.4	3	(of 5 points)
C. Equipment		B.5	4	(of 5 points)
(Total of 10 Points)		B.6	3	(of 5 points)
C.1 4 (of 6 po	ints)	B.7	5	(of 5 points)
C.2 (of 1 po				_ ` ' ' '
$\overline{}$ C.3 $\overline{}$ (of 3 po	,	D. Facult	y and Staff	Expertise
\ 1	,	(Total of 1	•	1
E. Economic and/or Cultural		D.1	10	(of 12 points)
Development and Impact				_ (** ** F ******)
(Total of 12 Points)				
E.1 2 (of 2 po	ints)	F. Previou	us Support	Fund Awards
E.2a $\frac{2}{10}$ (For S/E		(No Points		
or (of 10 p	,	G.1 Yes	X	No
E.2b (For NS		G.1 1 C 5		
(******	, —)			
G. Total Score: 79	(of 100 points)			
(Note: Proposals with a total s	— core below 70 will n	ot be recommen	ded for fur	nding.)
SPECIFIC BUDGETARY	Requested Amou	ınt:	\$31,510	_
RECOMMENDATIONS:	Recommended A	mount.	\$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 seeks to acquire a centrifuge separation instrument and a PCR thermal recycler to replace outdated equipment. Overall, this is a solid proposal. However, no evidence is provided to support the argument that the proposed instruments will augment a variety of teaching labs. Instead, it appears the equipment will support the team's research agenda. Additionally, while the goals are measurable, the timeline for accomplishing the goals does not appear realistic. There is no discussion of maintenance or upkeep. While this equipment is essential to understanding natural biopolymers, the ties to the synthetic polymer industry mentioned in the proposal are not readily apparent. The need is clear, particularly from a biochemistry or chemical biology standpoint, but this connection is superficial. Funding is not recommended.

RATING FORM FOR ENHANCEMENT INSTRUCTIONAL AND RESEARCH EQUIPMENT REQUESTS

		PROPOS	SAL NUMBE	R:	34CH	IE-17
INSTITUTION:	University of Louis	iana at Monroe				
TITLE OF PROPOS	SAL: Acquisi	tion of an Ultra-Hi	oh Performan	ce Lia	uid Chromatos	oranhy
TITLE OF TROTOS	1	C] Equipment to Co				51 apiry
		entation Facility in				
		·		belen	ices at OLIVI	
PRINCIPAL INVES	TIGATOR:	Emad El-Giar	•			
A The Comment Situ	ation	р	The Enhance		4 Dlan	
A. The Current Situ	ation		The Enhand		t Flan	
(Total of 10 Points) A.1 Yes x	No	(1 B.	otal of 56 Poi	nts)	(of 10 point	ta)
	_			8.5	$\frac{\text{(of 10 point)}}{\text{(of 21 point)}}$	
	(of 5 points)	B.			(of 21 point	
A.3 4	(of 5 points)	B.		5	of 5 points	
		B.		3	(of 5 points	
C. Equipment		B.		5	of 5 points	
(Total of 10 Points)		B.		4.5	of 5 points	
C.1 6	of 6 points)	B.	7	4	(of 5 points	.)
C.2 1	(of 1 point)					
C.3 3	(of 3 points)		Faculty and		Expertise	
		(T	otal of 12 Poi	nts)		
E. Economic and/or	Cultural	D.	1	9.5	(of 12 point	ts)
Development and Im	pact				<u> </u>	
(Total of 12 Points)						
E.1 2	(of 2 points)	F.	Previous Su	pport	Fund Award	S
E.2a 8	$-$ (For \hat{S}/E)	(N	o Points Assi	gned)		
or	(of 10 points)		1 Yes	,	No	X
E.2b	(For NS/NE)					
	_ `					
G. Total Score:	87.5 (of 100	points)				
(Note: Proposals wit	th a total score below	70 will not be re	commended f	for fui	nding.)	
SPECIFIC BUDGET	TARY Reques	ted Amount:	\$92	2,844		
RECOMMENDATION		mended Amount:		\$ 0	<u> </u>	
	21,21			Ψ.0	_	
COMMENTS: (Discu	uss proposal strengths	and weaknesses. r	articularly in	those	sections where	e

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 School of Sciences seeks to acquire an ultra-high performance liquid chromatography instrument that includes multiple detection capabilities to enhance teaching and research at ULM. The rationale is clearly presented. Overall, the work plan and evaluation for resulting research activities are good. Various faculty from Chemistry, Pharmacy, and Biology would also incorporate this equipment into research and student training. The shortcomings of the current HPLC would be resolved by the new system. No experimental protocols are described that will be developed and incorporated into the Chemistry curriculum. Institutional support is evident through letters of support and matching funds. However, with limited funds available, funding is not recommended.

RATING FORM FOR ENHANCEMENT INSTRUCTIONAL AND RESEARCH EQUIPMENT REQUESTS

	PROP	OSAL NUMBER:	35CHE-17
INSTITUTION: University	y of New Orleans		
TITLE OF PROPOSAL:	A Gas Chromatograph f	for Organic Analysis in	n Advanced
	Laboratories and Resear		
PRINCIPAL INVESTIGATOR	: Mark Trud	ell	
A. The Current Situation		B. The Enhancemer	nt Plan
(Total of 10 Points)		(Total of 56 Points)	
A.1 Yes x No		B.1 7.5	(of 10 points)
A.2 3.5 (of 5 points)	nts)	B.2 18	(of 21 points)
A.3 $\frac{}{4.5}$ (of 5 points)		B.3 4	(of 5 points)
		B.4 3.5	(of 5 points)
C. Equipment		B.5 3.5	(of 5 points)
(Total of 10 Points)		B.6 4	(of 5 points)
C.1 5 (of 6 points)	nts)	B.7 3	(of 5 points)
C.2 ${}$ (of 1 points)	nt)		_
C.3 (of 3 points)	nts)	D. Faculty and Staff	f Expertise
		(Total of 12 Points)	
E. Economic and/or Cultural		D.1 11.5	(of 12 points)
Development and Impact		<u>-</u>	
(Total of 12 Points)			
E.1 (of 2 points)		F. Previous Support	
E.2a 9 (For S/E)		(No Points Assigned)	
or (of 10 po		G.1 Yes x	No
E.2b (For NS/	NE)		
G. Total Score: 83	(of 100 points)		
(Note: Proposals with a total sc	— ore below 70 will not be	recommended for fu	nding.)
SPECIFIC BUDGETARY	Requested Amount:	\$25,000	

RECOMMENDATIONS: 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 seeks to acquire a Gas Chromatograph (GC) with a thermal-conductivity detector (TCD) and necessary columns to support basic and applied research. The rationale and objectives for the project are reasonable. It would enhance the capabilities of faculty researchers for securing external funding and collaboration with industry. However, the proposal lacks specifics on how the equipment would be used in the mentioned courses, and instructional activities that would be compromised by the lack of a GC with TCD. It is not clearly established how it would complement the existing GC in curricular enhancements. The evaluation plan is limited and lacks assessment metrics. Funding is not recommended.

RATING FORM FOR ENHANCEMENT INSTRUCTIONAL AND RESEARCH EQUIPMENT REQUESTS

	PRO	POSAL NU	JMBER:	36CI	HE-17
INSTITUTION: Xavier Uni	iversity				
TITLE OF PROPOSAL:	Acquisition of Modern	Instrument	ation for Ana	ılytical Curri	culum
PRINCIPAL INVESTIGATOR:	Mehnaaz	Ali			
A. The Current Situation			nhancement	Plan	
(Total of 10 Points)		(Total of s	66 Points)		
A.1 Yes No		B.1	9	_ (of 10 poin	
A.2		B.2	18	(of 21 poin	
A.3 ${}$ (of 5 point	ts)	B.3	5	(of 5 points	s)
		B.4	5	(of 5 points	s)
C. Equipment		B.5	5	(of 5 points	s)
(Total of 10 Points)		B.6	4	of 5 points	s)
C.1 5 (of 6 point	ts)	B.7	4	(of 5 points	s)
$\overline{}$ (of 1 point			-	_ `	
$\overline{2}$ (of 3 point		D. Facult	ty and Staff	Expertise	
	,	(Total of	•	•	
E. Economic and/or Cultural		D.1	11	(of 12 poin	ts)
Development and Impact				_ (/
(Total of 12 Points)					
E.1 $1 mtext{ (of 2 point)}$	ts)	F. Previo	ous Support	Fund Award	ls
E.2a $\frac{1}{8}$ (For S/E))		s Assigned)		
or $\frac{1}{(\text{of } 10 \text{ points})}$	nts)	G.1 Yes	3 7 1331gilea)	No	X
E.2b (For NS/N		G.1 1 0 5		- 110 -	71
(101110/11	(L)				
G. Total Score: 88	(of 100 points)				
(Note: Proposals with a total sco	re below 70 will not be	e recomme	nded for fun	ding.)	
SPECIFIC BUDGETARY	Requested Amount:		\$131,805		

SPECIFIC BUDGETARYRequested Amount:\$131,805RECOMMENDATIONS:Recommended Amount:\$67,722

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 requests support for instruments to enhance the analytical chemistry curriculum and capabilities. The goal of this project is to modernize the curriculum at Xavier by providing hands-on experience in problem solving and experimental design with modern instrumentation (MicroLab equipment, a research grade spectrophotometer and a potentiostat). The rationale for enhancing the analytical laboratory courses is good and reflects current trends toward problem-based instructional pedagogy. However, more details could be provided to show how the research-grade spectrophotometer and potentiometer will be effectively infused into the problem-based pedagogy. The proposal is well presented but lacks details in the execution of problem-based instructional approaches. This aspect could be better developed for effective evaluation. Partial funding for the MicroLab equipment is recommended. Funding is not recommended for additional equipment, taxes, and salary/release time. The institutional match may be reduced proportionately.

Appendix A

Summary List of Proposals

Proposals Submitted to the Traditional Enhancement Program - Chemistry for the FY 2016-17 Review Cycle

Proposal				Equipment/Non		Amount Requested			
Number	PI Name	Institution	Duration	Equipment	Project Title	Year 1	Year 2	Total	
	Dr. Dewayne				The Enhancement of NMR capabilities in the Sciences for Teaching and Research at				
001CHE-17	Logan	Baton Rouge Community College	1 Year	Е	Baton Rouge Community College	\$59,556.00	\$0.00	\$59,556.00	
002CHE-17	Dr. Divina Miranda	Baton Rouge Community College	1 Year	E	Enhancing Laboratory Instruction and Research in Chemistry Through the Acquisition of a Fluorescence Spectrophotometer	\$27,137.00	\$0.00	\$27,137.00	
0020112 17		Duton Rouge Community Conege	1 10		requisition of a radioscence operational area.	Ψ27,127.00	ψ0.00	Ψ27,127.00	
	Dr. Thomas				Sustaining and Enhancing a 21st Century Chemistry Curriculum Through				
003CHE-17	Ticich	Centenary College	1 Year	Е	Computational Tools	\$39,183.00	\$0.00	\$39,183.00	
					Reverse osmosis, micro, ultra and nano filtration equipment for teaching and				
004CHE-17	Dr. Kayanush Aryana	Louisiana State University Agricultural Center	1 Voor	E	research of concentration and fractionation of targeted chemical components in fluid foods.	\$136,263.00	00.02	\$136,263.00	
004CHE-17	Ai yalia	Louisiana State Oniversity Agricultural Center	1 Teat	E	100us.	\$130,203.00	\$0.00	\$130,203.00	
	Prof. Leslie								
005CHE-17	Butler	Louisiana State University and A & M College	2 Years	NE	Expanding the LSU CAMD Synchrotron User Community	\$30,000.00	\$0.00	\$30,000.00	
	Prof. Rendy								
006CHE-17	Kartika	Louisiana State University and A & M College	1 Year	Е	Enhanced Probe Capabilities for 500 MHz NMR Spectrometer	\$79,900.00	\$0.00	\$79,900.00	
007CHE-17	Prof. Evgueni Nesterov	Louisiana State University and A & M College	1 Year	E	Shared Facilities for Materials Research: Upgrade of the Small-Angle X-Ray Scattering Beamline at LSU CAMD	\$204,951.00	\$0.00	\$204,951.00	
	Prof. Justin								
008CHE-17	Ragains	Louisiana State University and A & M College	1 Year	Е	Accurate Mass ESI TOF Mass Spectrometer	\$134,691.00	\$0.00	\$134,691.00	
009CHE-17	Dr. George Stanley	Louisiana State University and A & M College	1 Year	E	Enhancement of the LSU Chemistry X-ray Facility	\$155,000.00	\$0.00	\$155,000.00	
00)CHE 17	Stanicy	Boulstaine State Oniversity and 11 & 14 Conlege	1 1001		Eminate of the Libe Chemistry A Tay Facility	Ψ155,000.00	ψ0.00	Ψ133,000.00	
	Dr. David				Enhancement of the LSU Electron Paramagnetic Resonance Spectroscopy Facility:				
010CHE-17	Vinyard	Louisiana State University and A & M College	2 Years	Е	Low Temperature Stability and Helium Conservation	\$125,210.00	\$0.00	\$125,210.00	
					Enhancing the Chemistry Curriculum at LSUA through the Acquisition of Gas				
011000 17	Dr. Gerard		1.37	F	Chromatography-Mass Spectrometer [GC-MS] and Atomic Absorption	#120.040.00	#0.00	#120 040 00	
011CHE-17	Dumancas	Louisiana State University at Alexandria	1 Year	Е	Spectrometer [AAS] Equipment	\$130,048.00	\$0.00	\$130,048.00	
	Prof. Elahe								
012CHE-17	Mahdavian	Louisiana State University in Shreveport	1 Year	E	Enhancement of Research Infrastructure for Drug Discovery Projects at LSUS	\$0.00	\$0.00	\$0.00	
013CHE-17	Dr. William Yu	Louisiana State University in Shreveport	2 Years	E	AFM for Chemistry and Nanoscience Education and Research	\$125,000.00	\$0.00	\$125,000.00	

Proposals Submitted to the Traditional Enhancement Program - Chemistry for the FY 2016-17 Review Cycle

Proposal	osal Equipment/Non		Amount Requested					
Number	PI Name	Institution	Duration	Equipment	Project Title	Year 1	Year 2	Total
014СНЕ-17	Prof. Upali Siriwardane	Louisiana Tech University	1 Year	E	Incorporation of modern chemical separation techniques [GC/HPLC] into LA Tech Integrated Chemistry/Environmental Science Labs	\$85,220.00	\$0.00	\$85,220.00
015CHE-17	De Luna Konlita	Loyola University New Orleans	1 Year	Е	Characterization of Powdered Samples for Teaching and Research	\$124,491.00	60.00	\$124,491.00
013CHE-17	Prof. Raj	Loyota University New Orleans	1 Tear	E	Acquisition of Liquid Chromatograph-Mass Spectrometer [LC-MS] to Enhance	\$124,491.00	\$0.00	\$124,491.00
016CHE-17	Boopathy	Nicholls State University	1 Year	Е	Environmental Chemistry Curriculum at Nicholls State University	\$129,402.00	\$0.00	\$129,402.00
017CHE-17	Dr. Matthew Marlow	Nicholls State University	1 Year	E	Enhancing Undergraduate Biological Molecular Structure and Dynamics Education and Research with Acquisition of a Inverse NMR probe and a Luminescence Spectrophotometer	\$99,356.00	\$0.00	\$99,356.00
018CHE-17	Prof. Shreyashi Ganguly	Northwestern State University	1 Year	Е	Enriching Chemistry Undergraduate Courses with Fluorescence Spectrophotometer	\$22,167.00	\$0.00	\$22,167.00
019CHE-17	Prof. Jennifer Hill	Northwestern State University	1 Year	Е	Enhancement of Undergraduate Scholarship in Chemistry through Nuclear Magnetic Resonance Spectroscopy	\$98,300.00	\$0.00	\$98,300.00
020CHE-17	Dr. Christopher Lyles	Northwestern State University	1 Year	E	Establishment of a chromatography suite for monitoring chemical 'fates' and determining chemical structure in science laboratories	\$108,176.00	\$0.00	\$108,176.00
021CHE-17	Dr. Chad Thibodeaux	Northwestern State University	1 Year	E	Microwave Plasma Atomic Emission Spectrometer for Enhancement of the Physical Science Program	\$64,689.00	\$0.00	\$64,689.00
022CHE-17	Mr. Stephen Waddell	Nunez Community College	1 Year	E	Revitalizing Chemistry	\$280,844.00	\$0.00	\$280,844.00
023CHE-17	Dr. Phillip Voegel	Southeastern Louisiana University	1 Year	E	Modernization of Separation Sciences and Atomic Spectroscopy Instrumentation for Enhancement of Education and Undergraduate Research at Southeastern Louisiana University	\$135,678.00	\$0.00	\$135,678.00
024CHE-17	Dr. Nebiat Sisay	Southern University at New Orleans	1 Year	E	Request for Fourier Transform-Infrared Spectrometry [FT-IR] to enhance the programs in the Department of Natural Sciences	\$63,655.00	\$0.00	\$63,655.00
025CHE-17	Prof. Joel Mague	Tulane University	1 Year	E	Enhancement of the Tulane X-ray Crystallography Laboratory	\$200,000.00	\$0.00	\$200,000.00
	Prof. Igor				and the second s	,	ψ0.00	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
026CHE-17	Rubtsov	Tulane University	1 Year	Е	Enhancing spectroscopic measurements at interfaces	\$104,914.00	\$0.00	\$104,914.00

Proposals Submitted to the Traditional Enhancement Program - Chemistry for the FY 2016-17 Review Cycle

Proposal				Equipment/Non	ent/Non		Amount Requested		
Number	PI Name	Institution	Duration	Equipment	Project Title	Year 1	Year 2	Total	
	Dr. Darryl								
027CHE-17	Holliday	University of Holy Cross	1 Year	Е	Chemistry Education and Outreach Infrastructure Project	\$100,515.00	\$0.00	\$100,515.00	
020CHE 17	Prof. August	This are the set and set are the	1 37	F	Acquisition of a Bench Top NMR Spectrometer for Integration into the Chemistry	¢c0 175 00	¢0.00	¢60 175 00	
028CHE-17	Gallo	University of Louisiana at Lafayette	1 Year	Е	Curriculum	\$60,175.00	\$0.00	\$60,175.00	
029CHE-17	Prof. Thomas Junk	University of Louisiana at Lafayette	1 Year	E	Introduction of UL Lafayette's Chemistry Program to Microwave Assisted Techniques	\$76,120.00	\$0.00	\$76,120.00	
029CnE-17	Junk	University of Louisiana at Larayette	1 Tear	E	rechniques	\$70,120.00	\$0.00	\$70,120.00	
030CHE-17	Dr. Kathleen Knierim	University of Louisiana at Lafayette	1 Year	E	Expanding the Application of Computational Chemistry in Teaching and Research at UL Lafavette	\$11,255.00	\$0.00	\$11,255.00	
030CHL-17	Kineiiii	Oniversity of Louisiana at Larayette	1 Tear	L	at OE Edityette	\$11,233.00	ψ0.00	φ11,233.00	
031CHE-17	Dr. Febee Louka	University of Louisiana at Lafayette	1 Year	E	Enhancement of Metal Analysis by Inductively Coupled Plasma Optical Emission Spectrometry in Education and Research	\$98,803.00	\$0.00	\$98,803.00	
031CHL-17	Dr. r cocc Louka	Oniversity of Louisiana at Larayette	1 Tear	L	i i	\$70,003.00	ψ0.00	Ψ20,003.00	
	D 6 C - 1 - 1				Integrating Thermal Analyzer and Thermal Techniques into Chemistry Teaching				
032CHE-17	Prof. Salah Massoud	University of Louisiana at Lafayette	1 Year	Е	and Research Laboratories for Undergraduates Majoring in Chemistry and Chemical Engineering	\$44,831.00	\$0.00	\$44,831.00	
				_		+ 1 1,000 1100	70.00	7 . 1,00 . 100	
					Strengthen polymer separation and characterization capacity to enhance				
033CHE-17	Prof. Wu Xu	University of Louisiana at Lafayette	1 Year	Е	undergraduate teaching and research	\$31,510.00	\$0.00	\$31,510.00	
					Acquisition of an ultra-high performance liquid chromatography [UHPLC] equipment to complement and strengthen the instrumentation facility in the School				
034CHE-17	Dr. Emad El-Giar	University of Louisiana at Monroe	1 Year	Е	of Sciences at ULM	\$92,844.00	\$0.00	\$92,844.00	
	Prof. Mark				A Gas Chromatograph for Organic Analysis in Advanced Laboratories and				
035CHE-17	Trudell	University of New Orleans	1 Year	E	Research	\$25,000.00	\$0.00	\$25,000.00	
	Prof. Mehnaaz								
036CHE-17	Ali	Xavier University	1 Year	Е	Acquisition of modern instrumentation for Analytical curriculum	\$131,805.00	\$0.00	\$131,805.00	
Total Number	of Proposals submi	ttod		36					
	Or Proposals subili		1	\$2.426.690.00	4				

\$3,436,689.00 \$0.00

\$3,436,689.00

Total Money Requested for First Year
Total Money Requested for Second Year

Total Money Requested

Appendix B

Rating Forms

Proposal Number:	Principal Investigator:	Page 1 of 2

BOARD OF REGENTS SUPPORT FUND ENHANCEMENT PROGRAM, FISCAL YEAR 2016-17

RATING FORM FOR TRADITIONAL AND UNDERGRADUATE ENHANCEMENT PROPOSALS PURCHASE OF INSTRUCTIONAL AND RESEARCH EQUIPMENT

dec		iew this form	ation form should represent the consensus of the expert members of the review panel and, as such, must reflect the final and the program guidelines prior to reading the proposal. The higher the score, the more clearly the proposal satisfies the
A.	THE CURRENT S	SITUATIO	ON—10 points
	YESNO	A.1	Has the applicant adequately described the institution and unit(s)/department(s) that will benefit from the 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)/unit(s) and/or curricula?
	of 5 pts.	A.3	To what extent will the project complement and improve upon existing resources of the department(s) or unit(s)?
B.	THE ENHANCE	MENT PL	AN—56 points
	of 10 pts.	B.1	Are the goals and objectives clearly stated? Are they realistic? Are the objectives measurable? Can the objectives be completed within the timeframe detailed in the proposal?
	of 21 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 and a schedule of// activities with benchmarks to be accomplished?
	of 5 pts.	B.3	To what extent will the proposed project propel the department(s)/ unit(s) into attaining a high level of regional, national, or international eminenceor maintaining a current high level of eminence-commensurate with degree offerings and/or functions?
	of 5 pts.	B.4	To what extent will the proposed project have an impact on the variety and/or quality of curricular offerings and instructional methods within the affected department(s) or unit(s)?
	of 5 pts.	B.5	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?
	of 5 pts.	B.6	To what extent will the project contribute to improving the quality and effectiveness of faculty teaching and improve faculty pedagogy?
	of 5 pts.	B.7	To what extent does the proposal indicate how the PIs will assess/evaluate the degree to which the project has achieved its goals?
C.	EQUIPMENT—1	0 points	
	of 6 pts.	C.1	To what extent has the proposal established a relationship between the enhancement plan activities and the type of equipment requested? Is the equipment well-justified? Will it significantly enhance the existing technological capability of the department(s)/units(s)? Does it reflect current and projected trends in technology?
	of 1 pt.	C.2	Is there a thorough survey of the current equipment inventory and does the proposal plan to make full use of the equipment?
	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?

D.	FACULTY AND S	FACULTY AND STAFF EXPERTISE—12 points							
	of 12 pts	D.1	Are the faculty and support staff appropriately qualified to implement this project? If special training will be required for faculty and/or other personnel, has an appropriate plan been developed?						
E.	ECONOMIC ANI	D/OR CUI	TURAL DEVELOPMENT AND IMPACT—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 college or university or consortium of colleges and universities, federal government agency)?						
	of 10 pts.	E.2	To what extent will the project assist the submitting department(s)/unit(s) in promoting or enhancing economic, cultural and/or academic development and/or resources in Louisiana?						
F.	PREVIOUS SUPP	ORT FUN	ND AWARDS—No points assigned						
	YESNO	F.1	If the Project Director or Co-Project Director has received previous Support Fund support, has it been adequately documented?						
G.	TOTAL SCORE (roposals with a total score below 70 will not be recommended for funding.)						
			SPECIFIC BUDGETARY RECOMMENDATIONS						
Red	quested Amount \$		Recommended Amount \$						
disc	lose, divulge, publish, file	patent applica	nation, documentation and material of any kind (hereinafter referred to as "Material") included in this proposal; I further agree not to attion on, claim ownership of, exploit or make any other use whatsoever of said "Material" without the written permission of the owledge, no conflict of interest is created as a result of my reviewing this proposal.						
Rev	iewer's Name and Instituti	on:							
Rev	iewer's Signature:		Date:						
			(Form 6.11, rev 2015)						

Proposal Number:	Principal Investigator:	Page 1 of 2

BOARD OF REGENTS SUPPORT FUND ENHANCEMENT PROGRAM, FISCAL YEAR 2016-17

RATING FORM FOR TRADITIONAL AND UNDERGRADUATE ENHANCEMENT PROPOSALS REQUESTS OTHER THAN EQUIPMENT PURCHASES (e.g., Colloquia, Curricular Revisions, etc.)

INSTRUCTIONS: The completed evaluation form should represent the consensus of the expert members of the review panel and, as such, must reflect the final

	sions of that panel. Re erion under considerati		and the program guidelines prior to reading the proposal. The higher the score, the more clearly the proposal satisfies the						
A.	THE CURRENT SITUATION—10 points								
	YESNO	A.1	Has the applicant adequately described the institution and department(s)/unit(s) that will benefit from the 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)/unit(s) and/or curricula?						
	of 5 pts.	A.3	To what extent will the project complement and improve upon existing resources of the department(s)/ $unit(s)$?						
B.	THE ENHANCE	EMENT PLA	N—66 points						
	of 10 pts.	B.1	Are the goals and objectives clearly stated? Are they realistic? Are the objectives measurable? Can the objectives be completed within the timeframe detailed in the proposal?						
	of 20 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 and a schedule of activities with benchmarks to be accomplished?						
	of 8 pts.	B.3	To what extent will the proposed project propel the department(s)/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?						
	of 8 pts.	B.4	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)?						
	of 8 pts.	B.5	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?						
	of 8 pts.	B.6	To what extent will the project contribute to improving the quality and effectiveness of faculty teaching and improve faculty pedagogy?						
	of 4 pts.	B.7	To what extent does the proposal indicate how the PIs will assess/evaluate the degree to which the project has achieved its goals?						
C.	FACULTY AND	STAFF EXI	PERTISE—12 points						
	of 12 pts.	C.1	Are faculty and support staff appropriately qualified to implement the project? If special training will be required for faculty and/or other personnel, has an appropriate plan been developed?						
D.	ECONOMIC AN	D/OR CULT	FURAL DEVELOPMENT AND IMPACT—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, or another college or university or consortium of colleges and universities, federal government agency)?						
	of 10 pts.	D.2	To what extent will the project assist the submitting department(s)/unit(s) in promoting or enhancing						

E. PREVIOUS S	SUPPORT FUN	ND AWARDS—No points assigned
YESNO	E.1	If the Project Director or Co-Project Director has received previous Support Fund support, has it been adequately documented?
F. TOTAL SCO of 100 pe		roposals with a total score below 70 will not be recommended for funding.)
		SPECIFIC BUDGETARY RECOMMENDATIONS
Requested Amount	\$	Recommended Amount \$
disclose, divulge, publisl	h, file patent applica	nation, documentation and material of any kind (hereinafter referred to as "Material") included in this proposal; I further agree not to tition on, claim ownership of, exploit or make any other use whatsoever of said "Material" without the written permission of the owledge, no conflict of interest is created as a result of my reviewing this proposal.
Reviewer's Name and In	stitution:	
Reviewer's Signature:		Date:
		(Form 6.12, rev 2015)