

**GUIDELINES FOR SUBMISSION OF
PRE-PROPOSALS AND PROPOSALS FOR
FISCAL YEAR 2007-2008**

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**PRE-PROPOSALS ARE DUE BY 11:00 AM
25 OCTOBER 2007**

**PROPOSALS ARE DUE BY 11:00 AM
17 JANUARY 2008**

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LOUISIANA APPLIED OIL SPILL RESEARCH AND DEVELOPMENT PROGRAM (OSRADP)

I. PROGRAM DESCRIPTION

A. Introduction

The Louisiana Applied and Educational Oil Spill Research and Development Program (OSRADP) (under the authority of the Louisiana Oil Spill Coordinator) is authorized under the Oil Spill Prevention and Response Act (OSPRA) (Act 7) as amended. Louisiana State University (LSU) is authorized to provide subcontracts or letter agreements through the OSRADP Administrator to Louisiana's public institutions of higher education to accomplish applied research on the following topics:

- spill[s] of opportunity;
- research, testing, and development of discharge prevention and response technology;
- discharge response training;
- wildlife and natural resources protection, rescue, and rehabilitation;
- development of computer models to predict the movements and impacts of discharges; and
- other purposes consistent with and in furtherance of the Act's purpose.

In accordance with the OSPRA, subcontracts or letter agreements relating to wildlife, aquatic resources, and habitats shall be made in coordination with Louisiana Department of Wildlife and Fisheries. Subcontracts or letter agreements relating to wetlands and coastal resources shall be made in coordination with the Louisiana Department of Natural Resources.

To the greatest extent possible, research subcontracts or letter agreements shall be coordinated with studies being done by other state agencies, the federal government, or private industry to minimize duplication of effort and to guarantee the applied research/education endeavor is applicable to oil spill response in Louisiana.

The OSRADP involves LOSCO, the Interagency Council, LSU, and industry to provide a research agenda. Once the research agenda is agreed on, the OSRADP Administrator is authorized to solicit pre-proposals and then proposals from Louisiana's eligible public universities (Table 1). The OSRADP Administrator serves as a link between Louisiana's research community and LOSCO. Upon authorization from the Oil Spill Coordinator, subcontracts or letter agreements are issued by LSU to those universities whose applied research proposals were approved by the multi-disciplinary Proposal Review Board.

By adopting this philosophy the OSRADP includes as program participants all public universities that are eligible under the Act to apply for research subcontracts or letter agreements. Each university is contacted to solicit their participation in the OSRADP. For those universities that desire

to participate in the OSRADP, but may not have the required expertise, the OSRADP staff encourages cooperative research efforts to maximize use of available equipment and research talent.

The Louisiana Oil Spill Coordinator appoints a Proposal Review Board and Advisory Panel (consisting of the public-at-large, industry, academics, federal and state representatives. The Advisory Panel provides advice and assistance in the management of the OSRADP, while the Proposal Review Board blindly reviews all pre-proposals to determine those eligible for full proposal status.

The OSRADP Administrator, with assistance and advice from the Advisory Panel, proposes the research agenda. This agenda, on approval by the Louisiana Oil Spill Coordinator, serves as the blueprint for the public universities to submit formal proposals. The Oil Spill Interagency Council can also submit a list of applied research/education topics for the Advisory Panel's consideration.

The Advisory Panel, is appointed by the Louisiana Oil Spill Coordinator, and consists of: four (4) members from a list of names submitted by the oil and gas industry; two (2) members from academics; one (1) member representing the federal government; and three (3) representatives who represent, the Louisiana Department of Natural Resources, the Louisiana Department of Environmental Quality or the Louisiana Department of Wildlife and Fisheries. The chairperson is the Oil Spill Coordinator or his designee. Except for state representatives, the Panel members serve at the discretion of the Oil Spill Coordinator, who can change the membership or maintain its composition each year.

The Proposal Review Board, is appointed by the Louisiana Oil Spill Coordinator, and consists of: three (3) members from a list of names submitted by the oil and gas industry; two (2) members from academics; one (1) member from the public-at-large; and one (1) member from a federal or state agency from a list of names submitted by the Oil Spill Coordinator, members of his staff, the OSRADP Administrator, or members of the Oil Spill Interagency Council. All individuals selected to serve on this Board submit vitaes/resumes to the Coordinator for review. The Proposal Review Board is chaired by the Louisiana Oil Spill Coordinator or his designee. Board members serve staggered two-year terms. In the first year, a lottery was used to determine those that would serve one-year terms. Each year, three (3) members rotate off the Board. One academic Board member always represents one of the state's historically black colleges and universities. Each Board member is sent all pre-proposals/proposals submitted to the OSRADP Administrator for review and ranking.

Principal investigators and those directly or indirectly associated with any proposal are prohibited from soliciting in any way an endorsement/recommendation from the Oil Spill Coordinator, Deputy Oil Spill Coordinator, the OSRADP Administrator, Assistant Administrator and staff, or any member of the Advisory Panel and/or Proposal Review Board concerning a pre-proposal/proposal submitted to the program. Violation of this provision

shall be grounds for disqualification by the Louisiana Oil Spill Coordinator from the OSRADP for that fiscal year.

Further, this announcement does not commit the Proposal Review Board to award a subcontract/letter agreement or to pay any costs incurred in the preparation of a pre-proposal/proposal. The Proposal Review Board reserves the right to accept or reject any or all pre-proposals or full proposals submitted and/or to cancel this announcement. In addition, the Proposal Review Board reserves the right, without qualifications, to select any proposal as a basis for negotiation, require revisions to the statement of work and/or budget, to reject any or all proposals, and to exercise its discretion and apply its judgements with respect to any proposal submitted.

Table 1. State-supported schools that may participate in the Oil Spill Research and Development Program

1. Grambling State University
2. Louisiana State University and A & M College
3. Louisiana State University Agricultural Center
4. Louisiana State University Hebert Law Center
5. Louisiana State University at Alexandria
6. Louisiana State University at Eunice
7. Louisiana State University at Shreveport
8. Louisiana Tech University
9. Louisiana Universities Marine Consortium
10. McNeese State University
11. Nicholls State University
12. Northwestern State University
13. Southeastern Louisiana University
14. Southern University and A & M College
15. Southern University at New Orleans
16. Southern University at Shreveport
17. University of Louisiana at Lafayette
18. University of New Orleans
19. University of Louisiana at Monroe

Specific questions concerning the OSRADP should be directed to Dr. Donald Davis, Administrator, at 225/578-3481 or Karen Emery, Assistant Administrator at 225/578-3477, or FAX 225/578-0403 or email: don.lsu.davis@gmail.com or kreedel@lsu.edu.

B. Funding

Subject to annual appropriation by the Louisiana Legislature, LOSCO, with the approval of the Oil Spill Interagency Council, provides research funds up to approximately \$482,000 from the Oil Spill

Contingency Fund for this fiscal year to LSU through an Interagency Agreement.

Collaborations may include colleagues at other Louisiana institutions, institutions outside of Louisiana, industry, or private colleges and universities, provided the principal investigator is from one of the state's public colleges and universities and **no more than 25% of the budget** is allocated to these outside entities. However, these arrangements must be clearly outlined in any pre-proposal or proposal, with associated overhead rates included.

Cost sharing/match is not required although it is strongly encouraged through the acquisition of funds from external agencies, corporate sponsors, and through institutional support. Applicants must be aware that selection of a pre-proposal can be influenced by the amount and nature of the cost sharing/match commitment, but a good pre-proposal will **NOT** be penalized if there is no cost share/match component. If match is included in the pre-proposal each successful applicant must honor any cost share/match commitment made in the pre-proposal by including the cost sharing/match in the proposal submitted. **Furthermore, all proposals must contain a letter from the contributor certifying the amount and availability of the funds for the project and any applicable restrictions. This letter shall not imply, directly or indirectly, an endorsement/recommendation and must not be a general letter of support. It shall only document the fact that, if approved, cost sharing/matching funds will be available.** All cost sharing/matching must comply with the criteria set forth in Subpart C of the Office of Management and Budget (OMB) Circular A-110, "Uniform Administrative Requirements for Grants and Agreements with Institutions of Higher Education, Hospitals, and other Nonprofit Organizations."

Subcontracts or letter agreements issued pursuant to an approved proposal will be for one year but can extend up to two years contingent on the availability of funds. **Multi-year proposals will be reviewed on an annual basis for continued funding and will be limited to no more than 30% of the program's annual appropriation.** Budget and time requests will be carefully considered during the review process. Total awards for the 2007-2008 awards cycle will total approximately \$482,000 (**the average award has been \$43,658**). Projects requesting less than \$20,000 are encouraged. With proper justification, proposals up to \$100,000 will be considered. However, for these projects it is suggested the pre-proposal/proposal focus on first developing the methodologies required to implement these projects. Pre-proposals for analyzing spill[s] of opportunity, on a contingency basis, with total funding of at least \$25,000 are also being solicited through this request for pre-proposals/proposals.

The OSRADP Administrator, Energy Programs/LSU nor any other participating university may seek or solicit funds for this program, directly or indirectly, from the oil and gas industry without prior written approval from the Oil Spill Coordinator. Failure to comply with this requirement may result in disqualification of the pre-proposal/proposal.

C. Time Table

The following schedule for submission, assessment, and approval of subcontracts or letter agreements through the OSRADP will apply for Fiscal Year 2007-2008.

October 25, 2007	Pre-proposals are due in the OSRADP office (not simply postmarked), 258 B Military Science Building, by 11:00 AM.
December	Successful principal investigators will receive notification to submit a proposal.
January 17, 2008	Full proposals due in the OSRADP office (not simply postmarked), 258 B Military Science Building, by 11:00 AM.
February/March	Principal investigator presentations
April	Issuance of subcontracts/letter agreements
May/June	Commencement of research

II. THE LOUISIANA APPLIED OIL SPILL RESEARCH AND DEVELOPMENT PROGRAM (OSRADP) 2007-2008 RESEARCH AGENDA

It is important that all potential respondents to the OSRADP's request for pre-proposals/proposals understand the program is interested in projects that can be potentially used in some commercial manner. Please note this year's research agenda considers a number of priority areas - section B, as well as section C - suggested educational topics, and section D - special topic. Projects that focus on these priorities will be reviewed and ranked first. Review the priority issues carefully, although important, they may not consume all of our funding. If these subject areas are not within your area of expertise, please use the list of suggested topics to serve as your guide for a pre-proposal. As always, the topics listed are only suggestions and are not intended to stifle a scientist's imagination. All pre-proposals and full proposals will be evaluated by the program's Proposal Review Board as set forth in the *Guidelines for Submission of Pre-proposals and Proposals for Fiscal Year 2006-2007*. If a researcher has a topic, or project, that meets the program's criterion (direct application to Louisiana and its environment; potential for widespread and demonstrated field application; and/or demonstration of increased, measurable, enhanced response efficiency) that researcher is encouraged to submit his or her pre-proposal/proposal to the program. The principal area of concern is research that can be applied. We are **NOT** interested in basic research.

The Advisory Panel has divided the Agenda into two components: spill(s) of opportunity and research agenda items. Note that spill of opportunity funds can be applied for in three (3) ways and that there is at least \$25,000 available. Even though it may be generic in its approach, a proposal must be on file, since it serves as the project's scope of services. This year's research agenda considers a number of spill(s) of opportunity priority topics (see section A).

For example, one of our interests is to use our spill of opportunity funds to enhance our ability to

determine environmental impacts and recovery of natural resources from dispersants associated with an oil spill. In this regard, these funds could be used to understand and evaluate the fate and effect of pre approved dispersants in wetlands or near-shore environments in a field situation.

A. SPILL(S) OF OPPORTUNITY

The OSRADP is looking for projects that address issues related to applying and evaluating a wide range of new experimental technology to enhance oil spill prevention and response. Be creative, but remember to focus on a problem - not a monitoring issue. Topics of interest are outlined below. In addition, the use of dispersants is an issue of primary concern, but this is not the only topic that should be considered during a spill of opportunity event.

There are three (3) ways the research community can apply for the spill of opportunity funds.

1. This announcement, the *Guidelines for Submission of Pre-proposals and Proposals for Fiscal Year 2007-2008*, serves as a general announcement and open call for proposals for spill(s) of opportunity funds. Any principal investigator familiar with a spill of opportunity and a research idea related to it may apply at any time. Throughout the year, the Louisiana Oil Spill Coordinator may identify a spill of opportunity with research potential. If this occurs, the OSRADP Administrator will issue a special request for a spill of opportunity proposal.
2. Any researcher submitting a project to the OSRADP may add an additional section to his/her pre-proposal requesting funds for research on a spill of opportunity. The appended section must show the project's ability to move from the laboratory to the field to show the relevance and applied nature of the project. The project will undergo review by the Proposal Review Board as outlined in the "*Guidelines*." However, if a spill of opportunity occurs, the funded project will be amended to include the addition of spill of opportunity funds. If these funds have not been previously allocated, the researcher will be contacted by the OSRADP Administrator and the funds transferred to the researcher's university.
3. A researcher(s) may submit a pre-proposal/proposal to do research on a spill of opportunity based on a well-defined set of research criteria. These types of pre-proposals/proposals are submitted by the regular deadline for pre-proposals/proposals. Successful proposals will be "shelved" until the Louisiana Oil Spill Coordinator's Office (LOSCO) determines a spill that can be utilized for the project. The researchers will be notified of the spill of opportunity and the funds transferred to the researcher's university.

B. RESEARCH AGENDA ITEMS

1. PRIORITY AREAS:

- Develop, coordinate, and host a one-day risk assessment workshop relative to storm events. The workshop needs to address the question: “What are the basic elements one has to consider before, during, and after a storm event?” And, “What public domain material(s) is/are available to help first responders meet their risk assessment needs?”
- Determine the ecological effects of dispersant use in near-shore environments (out to the 10-meter depth contour), with an emphasis on ecological risk assessment in a specific geographic region in Louisiana. The deliverable will include a model developed by a circulation and/or biophysical natural resource modeler that shows the dynamics of dispersant movement under a variety of conditions and can serve as a guide to dispersant use in coastal Louisiana.
- Production of a detailed map/catalogue of the spatial distribution of submerged aquatic vegetation (SAV) in coastal Louisiana, east of the Mississippi and on all of the River’s main passes. This project will require considerable fieldwork to assess accurately coastal Louisiana’s submerged aquatic vegetation because vegetation cannot be classified by satellite or airborne scanner data with any degree of consistency in accuracy.
- Development of a GIS based risk matrix using data on pipelines, orphaned wells, 29B disposal locations (?), and including age information on the oil and gas infrastructure together with information on coastal land loss rates to provide oil and gas infrastructure information in the context of coastal land loss. This is envisioned as a tool to help decision makers prioritize infrastructure maintenance and coastal restoration projects, and to provide information about likely areas of high potential for oil and gas discharges.

2. SUGGESTED TOPICS:

- Determination of the rate of recovery for oiled habitats in Louisiana as a function of oil type, soil chemistry (PSA, pH, TDS/EC, etc), plant community, and hydrologic (elevation) conditions. This research may involve evaluation of historic and new spill sites. Before and after ecological functions (quick HEA) may be of interest, too, if possible.
- Using a “suitcase” remote controlled aircraft, conduct a detailed field survey of Louisiana’s seabird colonies using as a baseline data compiled and collected in a previous OSRADP-sponsored study completed in conjunction with the Louisiana Department of Wildlife and Fisheries.
- Inventory available sets collected by various Ocean Observing Systems and establish standardized data formats for presentation, dissemination, and synthesis of these data to the spill response community.

- Assessment of existing and further development of operational forecast tools to determine oil-spill trajectories under hurricanes and major storm conditions including impact of wind, surge, and topographic features.
- Identify metrics of estuarine marsh functionality (e.g., biomass, stem density and height) and associated edaphic characteristics of mineral and organic wetland soils/sediments in order to develop maturity endpoints for those metrics, as well as success criteria for marsh injury compensatory projects. In addition, the research team is expected to evaluate methods for collecting, analyzing and interpreting those metrics.
- Laboratory and field investigation of the biological and chemical effects of the use of dispersants in riverine systems and the development of a model that can serve as a guide to dispersant use in upland Louisiana through examination of costs and benefits in a specific situation.
- Determination of the mechanisms of both acute and sublethal toxicity of dispersed oil to organisms important to Louisiana's economy. Studies should examine photo-enhanced toxicity; the relative contribution of dissolved and particulate oil phases to toxicity with representative species, including sensitive species and life stages and delayed effects of any short-term toxic elements.
- Development of recommendations for enhancing the rigs to reefs program to create new habitat for juvenile fishes, crabs, and shrimps, not just big fish. Projects should consider giving the responsible parties habitat equivalency analysis (HEA) and resource equivalency analysis (REA) credits in the rigs to reefs program for this type of effort
- Assessment of the ability of fur and feathers to maintain the water-repellence critical for thermal insulation under dispersed oil exposure conditions comparable to those expected in the field.
- Investigation of the feasibility of transforming a non-productive rice field or other available property, into a marsh (salt, fresh, or brackish) and/or an upland for use in oil-spill-studies (prescribed burns, dispersant testing, plant succession, and bioremediation) and any other chemical studies that may benefit the spill response community.
- Assessment of new options/tools, such as remote sensing technology (such as robotics or micro-scale sensors, etc.), that can be used by the response organizations/responders and Shoreline Cleanup Assessment Teams (SCAT) personnel to assess an oil spill's impact.

- Evaluation of methods used to measure stress in marshes (salt, brackish, and fresh) caused by petroleum hydrocarbons and brine. Factors such as type of hydrocarbon and/or brine spilled, time of year, degree of oiling, plant community, elevation, soil chemistry, microbial community, tides and other marsh functionality measurements might be used. Literature (e.g. National Response Center Reports, lab studies, field/case studies, OSRADP studies, etc) might be compared to short-term pilot marsh (tub) studies.
- Development of a rapid estimation of wind waves, storm surge, and wind drift to improve operational prediction of oil-spill trajectory during a hurricane.
- Investigation of the effects of oil spills on the native aquatic animals, particularly those organisms living in the sediment for which effects were not obvious.
- Develop procedures to assess the socioeconomic and environmental cost of an oil spill that will estimate the cost of remediating the spill event using readily available physiographical, biochemical, and geochemical parameters.
- Development of a GIS-based marsh management system to assist land managers and others better understand the “big picture” and serve as a tool for marsh restoration projects (NRDA). This system should have layers for individual groups of data (plants, birds, fish, shrimp, crab, elevations, water quality, tidal influences, control of plant succession, microbes, meta data, controlled burns, water control structures, etc).
- Comparison of the OSRADP spill response/hydrodynamic model for the waters in and around Lake Charles with the actual spill event that happened in the same area.
- Creation of “living” hydrodynamic models for Louisiana’s coastline to guide restoration activities. The coastline should be divided into manageable segments and the models updated as coastlines are modified by storm activity or managed restoration projects.
- Development of innovative methods to encourage recycling of oil and other products in Louisiana. The project must focus on methods and techniques that can be employed in the recycling process, including (but not limited to) developing an effective education and public awareness campaign. The project should consider also how to incorporate recycling materials in the rebuilding of docks and marinas destroyed during the 2005 hurricane season.
- Investigation on the fundamental plant physiology that allows one species to handle high levels of TPH while other plants perish.

3. SUGGESTED EDUCATIONAL TOPICS:

- Development of oil- spill related research based educational materials that are aligned to the Louisiana Department of Education documents for K-12 classrooms (Grade Level Expectations [GLEs] and comprehensive curriculum).
- Establishment of a summer internship program for high school teachers of math, science or social studies to provide opportunities to work with researchers in the oil and gas industry and develop educational materials to be shared with other Louisiana teachers.
- Development of a mentoring program for high school students allowing them to participate in oil-spill-related research funded by the OSRADP. One key project component might be the creation of some product for educational use, e.g. a poster, CD, visual aid, web pages for the OSRADP site, etc.
- Coordination and promotion of a program that provides high school students and/or teachers opportunities for participation at oil and gas industry meetings and activities of oil and gas professional societies.
- Compilation databases, graphics or images in a useful form or collection for classroom use and student research in the oil and gas arena.
- Presentation of summer classroom/symposiums/workshops for teachers on using the mapping, scientific methods, etc. of oil and gas industry in the classroom.

C. SPECIAL TOPIC

Up to \$100,000 is allocated for research, testing and development of discharge prevention, and training, particularly for full scale well service training and blowout prevention.

The topics listed in the 2007-2008 Research Agenda are suggestions of the Advisory Panel and are not intended to stifle a scientist imagination. The Proposal Review Board, as set forth in Section IV and V herein, will evaluate all pre-proposals/proposals.

III. SELECTION PROCESS AND GUIDELINES FOR PRE-PROPOSALS

A. Selection of Pre-proposals

The Proposal Review Board members will evaluate and rank the pre-proposals. Ranking of the pre-proposals will be submitted to the OSRADP Administrator for compilation. The entire Proposal Review Board may convene to further evaluate the pre-proposals. After this evaluation, the Proposal Review Board will request full proposals from those that successfully meet the program's criteria.

1. Criteria for Evaluation of Pre-proposals

The research presented in the pre-proposals will be evaluated utilizing the following criteria:

- the pre-proposal's direct application to Louisiana and its environment;
- the pre-proposal's potential for wide-spread and demonstrated field application; and
- the pre-proposal's ability to demonstrate an increased, measurable, enhanced response efficiency.

B. Pre-proposal Requirements and Stipulations

1. Number of Pre-proposals That May Be Submitted

An individual may submit multiple pre-proposals. Consequently, the individual may be asked to submit more than one proposal to the OSRADP with the understanding that only one proposal will be funded. The individual may be listed as “Co-Principal Investigator” or “Other Investigator” on additional proposals funded through the OSRADP. At the Proposal Review Board's discretion this policy can be altered. If the Proposal Review Board believes more than one proposal submitted by a researcher should be funded, that principal investigator will be informed accordingly.

2. Anonymity of the Pre-proposal Document

All pre-proposals will undergo a blind review by the Proposal Review Board. In order to execute a blind review successfully, **two different cover pages** are to be used for the submission of the pre-proposal: one for the two (2) "Fully Executed" originals (Appendix A) and one to be used with the ten (10) "Anonymous" copies (Appendix B) that may not reference in any manner the researcher or his or her university. It is of the utmost importance that these two cover pages be used correctly. Failure to do so will result in automatic disqualification. In addition, names of researchers and affiliated universities should appear only on the "Cover Page for Fully Executed Documents" (Appendix A)--**NOT IN THE TEXT. If names of scientists or the affiliated universities appear in the text, the pre-proposal will be disqualified.**

3. General Format Stipulations

The purpose of the pre-proposal is to identify those projects that have sufficient merit and relevance to justify requesting a full proposal. Therefore, the pre-proposal should be clear and concise. Extensive background information, formal statistical designs, and full analytical protocols should not be in the pre-proposal. Although these are important issues and concerns, they will be critically considered when, and if, a full proposal is submitted.

4. Budgetary and Duration Considerations

Budget estimates should be based on the actual cost of research using **an overhead rate not to exceed 16% of modified total direct costs (MTDC)** and appropriate fringe benefit figures based on your individual institution's federally approved rates. If vessel costs are included, they should be based on current operating costs. Most costs, except those set forth in Section V(C)(11)(c) herein, are allowed. General facility enhancement will not be supported. Budgets must be prepared in accordance with OMB Circular A-21, "Cost Principles for Educational Institutions," provisions relating to allow ability of costs and established university accounting guidelines.

Anticipated equipment purchases must be strongly linked to the proposed research effort. In this regard, equipment purchased will be considered and reviewed strictly on a case-by-case basis. If properly documented, these expenditures **may be considered but must be approved by the OSRADP Administrator and the Louisiana Oil Spill Coordinator. If approved, title to the equipment will vest in the Louisiana Oil Spill Coordinator's Office/Office of the Governor.**

Pre-proposals submitted without using the following guidelines will be subject to disqualification.

- All pre-proposals must be typed on plain, 8½" x 11" white paper with pages numbered in the top, right-hand corner of each page. Make sure all page numbers are in numeric order!!!!
- Each copy of the pre-proposal must be securely stapled in the upper left-hand corner. **The use of binder clips, plastic spiral binders, printed covers, etc., is strictly prohibited.**
- Twelve (12) point type, or an easily readable font, must be used.
- A 1-inch margin at the top, bottom and on each side is required.
- **The first page must be the form for the cover page. There are two cover pages Appendix A and B provided with this notice. Appendix A is to be used as your signature page and cover page for the two fully-executed originals. Appendix B is to be used as the cover page for the ten (10) copies that will be used during the blind review process.**
- **In summary, provide twelve (12) copies of the completed pre-proposal. Two copies must include the fully executed cover pages and the requested budget identifying the researchers. The other ten (10) copies must not reference the individual scientist(s) or affiliated university(ies) in any manner. Please note that the budget pages to be used in the ten (10) anonymous copies should not have any reference to the researcher(s) or the institution(s).**
- All copies should be printed on only one side of each sheet.

5. Order of Submission

a. Cover Page

1. The "**Fully Executed Document Cover Page**" (**Appendix A**) - The two (2) fully executed originals of the pre-proposal must have the "Cover Page for Fully Executed Documents" (Appendix A) as its first component. This cover page should be filled out completely including the appropriate university signatures. **Each university is different, so follow your university's guidelines on this issue. DO NOT wait until the last minute to obtain all of the required signatures as the pre-proposals are due by 11:00 AM on the date shown on the cover of this document.**
2. The ten (10) anonymous copies must have the "**Cover Page for Anonymous Copies**" (**Appendix B**) as its first component. These copies will be circulated to the Proposal Review Board to ensure a blind, unbiased review and must not in anyway reference the scientist(s) or affiliated university(ies).

b. Narrative

A narrative **not to exceed three (3) single-spaced typewritten pages using twelve (12) point type, in an easily readable font**, must be included. In addition, names of researchers and affiliated universities should appear only on the "**Cover Page for Fully Executed Documents**" (**Appendix A**)—**NOT IN THE TEXT.**

The narrative should consist of three sections:

Proposed Project—Briefly describe the project emphasizing the question to be asked or problem to be solved. If appropriate, state formal hypotheses.

Methods—Where appropriate, indicate briefly methods to be used in sampling designs and analysis. Indicate level of acceptance of the proposed methods within the academic community.

Relevance—Describe the type of information the project will produce and explain briefly its relevance to the OSRADP's research objectives and specific target issues for FY 2007-2008 as well as its relevance to the evaluation criterion.

c. Bibliography

Use an "in line" bibliography style to notate the sources used for your idea(s) in the pre-proposal e.g. (Hanna 2004).

d. Literature Review

Because of the general concern over duplication, it is considered imperative that the principal investigator surveys all standard literature to clearly show the proposed research is **NOT** a duplication of another effort. **A thorough literature review is, therefore, critical. Failure to comply with this component may lead to disqualification of the pre-proposal.**

e. Curriculum Vitae/Resume

A short curriculum vitae/resume not to exceed five (5) pages each for the principal investigator and co-principal investigator(s) is vital. The vitae/resume must **not** reference the individual scientists' names or universities. Instead of names for the Principal Investigator use—"Principal Investigator" or "PI"; for the Co-Principal Investigator use—"Co-Principal Investigator" or "Co-PI". "PI's University" may be used instead of naming the particular university.

f. Budget

A **detailed** budget using the Budget Sheet in Appendix C of this announcement must be included (along with the budget justification page) as the final component of the pre-proposal document. This budget should be based on the actual cost of research using an overhead rate **not to exceed 16%** of modified total direct costs (MTDC) and federally approved fringe benefit figures. (See also Sections V(C)(11)(a-f) and Appendix H of this announcement). If a pre-proposal is successfully elevated to a full proposal, no substantial changes will be allowed in the budget.

Budget sheets included in the two (2) fully executed originals must identify the researcher(s) and the affiliated university(ies). Budget sheets included in the ten (10) copies may not have any references to the scientists or the affiliated university(ies).

g. Budget Justification

Formats for the budget and budget explanation page(s) are enclosed as Appendix H. A budget explanation page(s) **must** be attached to the budget page(s) that fully explains **every** item for which the expenditure of OSRADP money is proposed. See **"Instructions for Preparation of Proposed Budget (Appendix H)"** for detailed instructions on elements included on the

budget justification page.

6. Institutional Routing

The pre-proposals should be routed to appropriate university personnel **according to the policies of the submitting university or university-level research units** for such pre-proposal documents. At a minimum, the two (2) fully executed submissions must bear the signatures of all principal investigators and co-principal investigators and contain the administration signatures normally required by the institution. Since university personnel schedules can be hectic, **DO NOT** wait until the last minute to complete this form.

C. Procedure and Deadline for Submission of Pre-proposals

After the pre-proposals have been reviewed and ranked by the Proposal Review Board, successful principal investigators will be encouraged to submit full proposals. Guidelines for preparing and submitting full proposals are provided in this document (Section V). Only principal investigators who have been successful at the pre-proposal stage will be allowed to present full proposals for review. Unsolicited proposals will **NOT** be considered. A request for submittal of a full proposal does not guarantee it will be funded. Full proposals will be subject to full competitive review.

All pre-proposals must be received (not simply postmarked) by **11:00 am, October 25, 2007** in the Louisiana Applied Oil Spill Research and Development Program's office. Provide twelve (12) copies of the completed pre-proposal. (Two are fully executed originals with all appropriate signatures.) **Faxed copies of the pre-proposals will not be accepted. No pre-proposals will be accepted after 11:00 am, October 25, 2007.**

Material sent through the mail should be addressed to:

**Louisiana Applied Oil Spill Research and Development Program
Attn: Karen M. Emery, Assistant Administrator
258 A/B Military Science Building
Louisiana State University
Baton Rouge, LA 70803**

Material sent through an overnight service or physically carried should be sent to:

**Louisiana Applied Oil Spill Research and Development Program
Attn: Karen M. Emery, Assistant Administrator
258A/B Military Science Building
South Stadium Drive
Louisiana State University
Baton Rouge, LA 70803**

If the applicant wants assurance that his or her pre-proposal was received, a self-addressed, stamped post card must be included with the pre-proposal submission. Please make sure the

address , phone, and fax numbers listed on the cover pages of your pre-proposal/proposals is your physical mailing address, NOT the address of your institutions Office of Sponsored Programs, or whatever office your documents must be routed through.

APPENDIX A - Cover Page for Fully Executed Document

PROPOSAL NUMBER _____
Year 1 _____ Year 2 _____ TOTAL REQUESTED _____
(For Office Use Only)

**Louisiana Applied Oil Spill Research and Development Program (OSRADP)
2007-2008 Competition Pre-proposal Cover Page**
(to be used on fully executed originals only)

Investigators: PI _____ Phone _____
Co-PI(s) _____

Address: _____ Fax _____

Preliminary Title _____ Email _____

A Research Vessel IS IS NOT required. (Circle Appropriate.)

Number of graduate assistantships anticipated _____

Does the project involve Co-PI(s) outside of the submitting institution? YES NO

Does the project involve Co-PI(s) outside of Louisiana institutions? YES NO

Anticipated Funding:

Year 1 Request \$ _____; Year 1 Match \$ _____

Year 2 Request \$ _____; Year 2 Match \$ _____

Total Request \$ _____; Total Match \$ _____

Anticipated Sources of Match are:

Signatures:

Principal Investigators

Department Chair/Unit Director:

_____ Date _____

_____ Date _____

College Dean/Director*:

_____ Date _____

_____ Date _____

Institutional Representative Name:

_____ Date _____

***It is the responsibility of the Principal Investigator to obtain all required university signatures necessary for submission of this pre-proposal.**

APPENDIX B - Cover Page for Anonymous Document

Year 1 _____ Year 2 _____ **PROPOSAL NUMBER** _____
TOTAL REQUESTED _____
(For Office Use Only)

**Louisiana Applied Oil Spill Research and Development Program (OSRADP)
2007-2008 Competition Pre-proposal Cover Page**
(to be used on non-fully-executed copies)

Preliminary Title _____

A Research Vessel IS IS NOT required. (Circle Appropriate.)

Number of graduate assistantships anticipated _____

Does the project involve Co-PI(s) outside of the submitting institution? YES NO

Does the project involve Co-PI(s) outside of Louisiana institutions? YES NO

Anticipated Funding:

Year 1 Request \$ _____; Year 1 Match \$ _____

Year 2 Request \$ _____; Year 2 Match \$ _____

Total Request \$ _____; Total Match \$ _____

Anticipated Sources of Match are: _____

APPENDIX C - Pre-proposal Budget Form

PRE-PROPOSAL BUDGET FORM

Project Year 1 2 Cumulative
(Circle One)

Title of Proposed Research: _____

Principal Investigator(s): _____

Institution of Higher Education: _____

	OSRADP FUNDS	INSTITUTIONAL COST SHARING	THIRD PARTY COST SHARING
A. Personnel			
Research Personnel (see attached Budget Explanation)	_____	_____	_____
Other Personnel:			
1. Post Doctoral Associates	_____	_____	_____
2. Other Professionals	_____	_____	_____
3. Secretarial-Clerical	_____	_____	_____
4. Fringe Benefit ____ % of salaries (excluding graduate assistants and students)	_____	_____	_____
5. Graduate Students	_____	_____	_____
6. Undergraduate Students	_____	_____	_____
Total Salaries and Fringe Benefits	_____	_____	_____
B. Travel (Domestic only)	_____	_____	_____
C. Other Direct Costs			
1. Materials and Supplies	_____	_____	_____
2. Operating Costs	_____	_____	_____
3. Computer Service	_____	_____	_____
Total Other Direct Costs	_____	_____	_____
D. Contractual			
1. Consultant Services	_____	_____	_____
2. Subcontracts	_____	_____	_____
3. Other	_____	_____	_____
E. Modified Total Direct Costs (A through D)	_____	_____	_____
F. Indirect Costs (16% of MTDC)	_____	_____	_____
G. Equipment	_____	_____	_____
H. Total Budget	=====	=====	=====

Principal Investigator Name (Typed and Signature): _____

TYPED _____ **SIGNATURE** _____

Institutional Required Representative Name (Typed and Signature): _____

TYPED _____ **SIGNATURE** _____

IV. SELECTION PROCESS AND GUIDELINES FOR FULL PROPOSALS

A. Selection of Full Proposals

Only projects that have been successful at the pre-proposal stage will be allowed to present full proposals for review. Unsolicited proposals will **NOT** be considered. A request for submittal of a full proposal does not guarantee it will be funded. Full proposals will be subject to full competitive review. The following requirements and format and submission schedule for research proposals must be followed closely. **Proposals that do not adhere to these guidelines will be returned to the applicant for noncompliance and will not be considered for funding.**

All candidates who submit proposals must be available to make formal presentations to the Proposal Review Board within eight weeks after the RFP's January 17, 2008 deadline. After receiving the Proposal Review Board's recommendations of successful proposals, the Louisiana Oil Spill Coordinator will forward the list to the Oil Spill Interagency Council for final review and approval within fifteen (15) days. Subsequently, the OSRADP will be authorized to enter into subcontracts/letter agreements with the successful investigators.

B. Full Proposal Requirements and Stipulations

1. Number of Research Proposals That May Be Funded

An individual is permitted to serve as Principal Investigator on only one subcontract/letter agreement. If he or she is listed as "Co-Principal Investigator" or "Other Investigator" on additional proposals submitted to the OSRADP, the researcher's responsibilities must be clearly defined and the budget must clearly reflect the level of effort. At the Proposal Review Board's discretion this policy can be altered.

2. Addenda May Not Be Submitted Before or After Receipt of Proposal Unless Requested by the Proposal Review Board

No correspondence or addenda to proposals will be accepted after the proposal has been submitted, unless specifically requested by the Proposal Review Board. **No endorsement/recommendation letters are to be included.**

3. General Format Stipulations

The narrative section of the proposal must be no more than twelve (12) single-spaced pages using a 12-point type, in an easily readable font, excluding all appendixes.

Proposals submitted without using the proper guidelines will be subject to disqualification.

- **Two fully-executed original** proposals, with **original signatures** and considered by the submitting institution as “fully executed copies,” are required. Ten (**10**) additional copies are required. Attached to the copies are the cover page (Appendix D), institutional screening assurance (Appendix E), abstract/project summary (Appendix F), biographical sketch (Appendix G), and budget (Appendix H).
- All sections of the proposal must be typed on plain, 8½” x 11” white paper with pages numbered in the top, right-hand corner of each page.
- All copies of the proposal must be securely stapled in the upper left-hand corner. The use of binder clips, plastic spiral binders, printed covers, etc., is prohibited.
- Twelve (12) point type, in an easily readable font, must be used.
- A 1-inch margin at the top, bottom and on each side is required.
- The original signed fully executed, and all other copies, should be printed only on one side of each sheet.

4. Cost Sharing/Match

Proposals requesting cost sharing/match must contain a letter from the contributor certifying the amount, the availability of the funds for the project and any applicable restrictions. **This letter shall not imply, directly or indirectly, an endorsement and/or recommendation.** It shall, therefore, only document the fact that, if approved, cost sharing/matching funds will be available. All cost sharing/matching must comply with the criteria set forth in Subpart C of OMB Circular A-110, “Uniform Administrative Requirements for Grants and Agreements with Institutions of Higher Education, Hospitals, and other Nonprofit Organizations.”

The OSRADP Administrator, Energy Programs/LSU nor any other participating university may seek or solicit funds for this program, directly or indirectly, from the oil and gas industry without prior written approval from the Oil Spill Coordinator. Failure to comply with this requirement may result in disqualification of the proposal. With prior approval from the Oil Spill Coordinator, the OSRADP Administrator and staff will canvas state, federal, and other private funding sources for cost share/matching funds.

5. Institutional Screening Form

An institutional screening form must be attached to the two fully executed proposals. The format required for the institutional screening form is attached as Appendix E.

6. Guidelines for Identifying, Labeling, and Certifying the Confidential Nature of Information Contained in Research Proposals

Without assuming any liability for inadvertent disclosure and except for the purposes of evaluation, the OSRADP will limit dissemination of, or access to, information certified to be of confidential or proprietary nature which falls into a category described by Louisiana Revised Statutes 44:4(16) (Act 102 of the 1988 Regular Session of the Legislature), as long as the following conditions and assurances have been met and guidelines have been followed.

- The information to be protected must accompany the full proposal but must be separately assembled. Each page of the information to be protected must be clearly and conspicuously identified and marked as confidential. Revisions, amendments, and addenda will not be accepted after the proposal and the packet of information to be protected are submitted and logged by the OSRADP staff.
- A letter must be attached to the packet of information to be protected which:
 1. Concisely explains and certifies the need for confidentiality;
 2. Contains complete identification and mailing addresses of all entities (faculty or staff members, private or public concerns) that have a right to, or ownership of, the confidential information;
 3. In the case of public institutions of higher education, provides assurance that this request is in accordance with the rules and regulations adopted by the institution's management board with respect to Louisiana Revised Statutes 44:4(16); and
 4. Is signed by all entities identified in two (2) above.
- The packet of information and the letter described in certifying the confidential nature of information contained in research proposals must be reviewed by the chief administrator of the applicant's university or his/her designee, and he/she must certify in writing that the information is of a confidential or proprietary nature which falls into a category described by Louisiana Revised Statutes 44:4(16). This signed certification must accompany the packet of information to be protected and must be submitted simultaneously with the proposal.
- A person or entity wishing access to confidential information as defined previously in this section may request such access by making a specific

request to the researcher(s) and any other entity having a proprietary interest. Unanimity among all entities having a proprietary interest is required prior to release of information previously deemed confidential. In cases of denial of a request for access to protected information, the only recourse is an appeal through a court of law. The OSRADP does not assume any liability for the release of protected information when the release is ordered in accordance with state or federal laws.

7. Ownership of Documents and Grant of Rights

Upon completion or termination of the subcontracts or letter agreements, all data collected by LSU and its contracting parties through their subcontracts or letter agreements, except (1) matters relating to Intellectual Properties, and (2) personnel and administrative files, shall, upon request, be provided to and become the property of the Louisiana Oil Spill Coordinator's Office/Office of the Governor, and the Office shall not be restricted in any way whatever in its use of such material for Government purposes. The LOSCO shall have the right to require LSU to furnish copies of any or all of its internal records except (1) LSU's and subcontractor's personnel and administrative files, and (2) matters relating to Intellectual Properties within ten working (10) days of receipt of written notice issued by the Oil Spill Coordinator.

“Intellectual Properties” shall mean individually and collectively all inventions, improvements and/or discoveries which are conceived and/or made during the period of the subcontract or letter agreement. Intellectual Properties shall also include computer software developed under the subcontract or letter agreement.

All rights and title to Intellectual Properties shall vest in the respective University(ies) which first conceived and reduced to practice the Intellectual Properties. University(ies) shall promptly notify the OSRADP Administrator of any Intellectual Properties conceived/or made during a project funded through the OSRADP, who shall in turn properly notify the Office of Louisiana Oil Spill Coordinator, who shall in turn properly notify the members of the Oil and Gas Industry, under appropriate and applicable Confidentiality Agreement(s). University(ies) shall file and prosecute patents in the USA and worldwide, as University(ies) sees fit in its sole judgement, at University's(ies) expense. University(ies) shall agree to grant members of the Oil and Gas Industry which are assessed fees credited to the Oil Spill Contingency Fund, the first right to negotiate a non-exclusive license for use of Intellectual Properties, on terms to be negotiated in good faith. This option to negotiate shall extend for one (1) year after issue of patent and/or copyrighting computer software.

Any copyrights for software developed under this agreement will be registered jointly by the Sponsor (LSU), the Contractor (LOSICO), and any Louisiana educational institutions that might serve as subcontractors. All royalties and other income from such copyrights will be equally distributed to the Sponsor, the Contractor, and said

subcontractors minus the costs of copyright prosecution.

C. Format and Order of Submission

1. Cover Page (Appendix D)

If necessary, the title of the proposed research, the amount of funds requested, and the cost share/match commitment in the pre-proposal may be changed **slightly** when the full proposal is submitted. If changes are necessary, the original title/amount must be placed in parentheses next to the new title/amount in the appropriate place on the cover page (Appendix D). A title change cannot alter the substance of the research outlined in the pre-proposal. If the core subject of the proposal, or group of investigators, is altered or the funding request is changed substantially, the proposal will be disqualified for noncompliance, unless the changes were specifically suggested by the Proposal Review Board.

2. Institutional Screening Assurance (Appendix E)

3. Table of Contents

4. Abstract/Project Summary (Appendix F)

5. Work Plan, Time Schedule and Milestones

This section of the proposal must be no longer than two (2), single-spaced, typewritten pages and has to include a detailed work plan tied to a practical time schedule emphasizing research milestones. Consequently, a schedule must be included for proposed activities within the subcontract or letter agreement period, with benchmark dates indicated throughout the proposed subcontract or letter agreement period. **Annual results for the first year of a two-year project must be submitted as an Executive Summary (in lieu of a full proposal) by 17 January 2008.** If accepted, the final product will be delivered by the end of the subcontract or letter agreement period. A subcontract or letter agreement for one-year projects will begin on or about May 1, 2008 and terminate June 30, 2009. Two-year projects will begin on or about May 1, 2008 and terminate on June 30, 2010. **Second-year funding is contingent upon first-year performance and availability of funds.**

6. Narrative

The narrative portion of the application may be no longer than the equivalent of twelve (12) single-spaced, typewritten pages using twelve (12) point type, in an easily readable font. Outline, in detail, your research plan in a step-by-step organized process that clearly indicates your understanding of the work involved and the specific methods you plan to employ.

- Describe completely the science and the expected significance, methods, limitations, and relationship of the study to the present state of knowledge. The applied nature of the project must address, where appropriate, other work in the field and to comparable work in progress elsewhere.
- Proposals should include plans for publishing. If applicable, a description of how the level of competitive research achieved during the period of the OSRADP's subcontract or letter agreement will be maintained after financing from the OSRADP ends.
- If funds for assistantships, postdoctoral appointments, visiting faculty, etc., are requested, reasons for their participation and their roles in accomplishing objectives of the program must be clearly identified.
- We want to emphasize that this proposal will become the “**Statement of Work**” in the subcontract or letter agreement, and thus must contain a complete list of the tasks to be performed as outlined in this RFP. Since all principal investigators will include the list of tasks and deliverables/final products describing “what” work will be performed, grading to determine the successful proposal will also be based on “how” the tasks are to be performed to best answer the stated purposes of the research project.
- An event-flow diagram that outlines tasks and monthly performance must be included.

7. Deliverables/Final Products

Deliverables/final products should be clearly identified and in a format that will facilitate publishing and should be consistent with the project's goals and objectives. At a minimum, a professional, publishable quality manuscript should be submitted suitable for publishing according to the style guide authorized and provided by the OSRADP.

8. Institutional Capabilities and Commitment

Institutional capabilities and commitment with respect to the proposed research must be described, including available facilities and major items of equipment especially adapted or suited to the proposed research.

9. Bibliography

Use an “in line” bibliography to notate the sources used for your idea(s) in the proposal e.g. (Hanna 2004).

10. Biographical Sketches (Appendix G)

Name, qualifications, research and professional experience (**including a list of current public or private-funded research and the time committed to each project**) and a biographical sketch (with assigned tasks) for all research personnel involved in the proposed project should be submitted as Appendix G.

In anticipation of requests from reviewers and applicants alike, biographical sketches for all research personnel and other investigators will be limited to two (2) pages. It is mandatory that the form provided in Appendix G be used to provide this information.

11. Proposed Budget (Appendix H)

All proposal budgets are subject to change by the Louisiana Oil Spill Coordinator at the request of the Proposal Review Board. The OSRADP subcontracts or letter agreements will provide the flexibility to rebudget, up to 10% of the total approved budget. Allow ability of costs will be determined in accordance with OMB Circular A-21, "Cost Principles for Educational Institutions."

a. Budget Format

Formats for the budget and budget explanation page(s) are enclosed as Appendix H (Proposal Budget Form and Instructions for Preparation of Proposal Budget). A completed budget must be submitted using these forms. A budget explanation page(s) must be attached to the budget page(s) that fully explains every item for which the expenditure of OSRADP money is proposed, as noted in "Instructions for Preparation of Proposed Budget (Appendix H)".

If multi-year funding is requested, separate budget and budget explanation page(s) must be completed for each year of the proposed project, and a cumulative budget must also be included.

b. MTDC

The budget must be based on the actual cost of research with an overhead rate **not to exceed 16%** of modified total direct costs (MTDC). MTDC is defined as the total direct costs, less capital equipment expenditures (items costing \$250 or more with a useful life expectancy of at least 1 year) plus each subcontract in excess of \$25,000. The first \$25,000 of a subcontract is included in the calculation.

The project activation date should be on or about May 1, 2008 and the termination date should be no later than June 30, 2009. Two year projects terminate on June 30, 2010.

c. Disallowed Budgetary Items

The scope of the OSRADP does not permit the following: (1) purchase of office furniture or routine office equipment (e.g., personal computers, Fax machines); (2) construction of facilities; (3) routine renovation or upgrading of equipment, buildings, etc.; or (4) maintenance of equipment including computers and software. Support may not be requested for shortfalls or deficits in budgets, scholarships, tuition, or augmentation of salaries of individuals pursuing regularly assigned duties, or unspecified contingencies. Exceptions will be considered on a case-by-case basis by the Proposal Review Board with the final approval of the Louisiana Oil Spill Coordinator.

d. Funds for Principal Investigators and Support Personnel

If funds for assistantships, postdoctoral appointments, visiting faculty, etc., are requested, reasons for their participation, qualifications, and their roles in accomplishing objectives of the program must be clearly identified. In addition, the budget must show man-months or the percentage of time they will be involved and the rate of pay.

Principal Investigator(s) or co-principal investigator(s) may request partial salary support, **an amount not to exceed 25% academic year salary plus two-months summer support**. This limit on salary support applies to applicants from doctoral and non-doctoral degree-granting programs. If salary support is requested, the applicants must certify that (1) OSRADP funds will not supplant state funds, and (2) full-time employees will not, under any circumstances, receive funds in excess of 100% of their regular salaries.

e. Equipment

Anticipated equipment purchases must be directly and specifically linked to the proposed research project. In this regard, requests for equipment purchases will be considered and reviewed strictly on a case-by-case basis. If properly documented, these expenditures **may be** considered but must be approved by the Proposal Review Board, the OSRADP Administrator, and the Oil Spill Coordinator. **If approved, title to the equipment will vest in the Office of the Oil Spill Coordinator/Office of the Governor.**

The OSRADP is not an equipment grants program. Equipment may be requested only in the context of the particular research initiative proposed. If equipment is requested, the proposal must contain (1) a description of the equipment, as well as who would use it and in what capacity; (2) a plan for the technical operation and maintenance of the equipment both during the award period and after OSRADP support ends; (3) a justification of need for the equipment and a plan for shared use with any other future OSRADP

funded projects; and (4) no more than 20% of the requested budget can be allocated for equipment. If the equipment request exceeds 20%, the submitting university must provide in writing that it will provide the balance through cost sharing/match.

f. Travel

Travel must be outlined clearly in each proposal and only domestic travel related directly to accomplishing the deliverables/final products of the project will be considered. **Travel to professional meetings will be considered on a case-by-case basis provided the request, along with appropriate justification, is forwarded to the Administrator 90 days prior to the event.** In the event travel is approved to a professional meeting, the attendee must submit a trip report detailing the trip and its direct relation to the project deliverables/final products.

g. Budget Explanation Page

Completion of the budget includes documentation and justification of the amounts requested in each category. If appropriate, a description of potential private sector/ industrial participation in the project should be included. Contributions of funds, equipment, and services by the private sector also must be described in detail. These documentation pages must be included as part of the “**Budget Explanation**” section.

D. Procedure and Deadline for Submission of Full Proposals

Full proposals must be in the **Louisiana Applied Oil Spill Research and Development Program's office, Room 258A/B Military Science (not simply postmarked) by 11:00 am, January 17, 2008.** Provide twelve (12) copies of the completed proposal. Two copies are fully executed with all appropriate signatures and any letters describing a cost share/match commitment. **Faxed copies of the proposals will not be accepted.**

1. Mailing Address

Envelopes sent through the mail should be addressed to:

**Louisiana Applied Oil Spill Research and Development Program
Attn: Karen M. Emery Assistant Administrator
258A/B Military Science Building
Louisiana State University
Baton Rouge, LA 70803**

Material sent through an overnight service or physical carried should be sent to:

Louisiana Applied Oil Spill Research and Development Program

**Attn: Karen M. Emery, Assistant Administrator
258A/B Military Science Building
South Stadium Drive
Louisiana State University
Baton Rouge, LA 70803**

If the applicant wants assurance that his or her proposal was received, a self-addressed, stamped post card must be included with the proposal submission. **Remember the deadline for submission is 11:00 am, January 17, 2008. Late proposals will NOT be accepted.**

If the applicant wants assurance that his or her pre-proposal was received, a self-addressed, stamped post card must be included with the pre-proposal submission. Please make sure the address, phone, and fax numbers listed on the cover pages of your pre-proposal/proposals is your physical mailing address, NOT the address of your institutions Office of Sponsored Programs, or whatever office your documents must be routed through.

V. EVALUATION AND ACCOUNTABILITY OF FUNDED FULL PROPOSALS

A. Evaluation and Accountability

<u>Month</u>	<u>Deliverable/final product or evaluation</u>
May	OSRADP will visit or telephone each principal investigator to ensure there are no start up problems involving the subcontract or letter agreement.
Aug	Principal Investigators (PI's) submit a detailed written quarterly progress and financial report to the OSRADP.
Sept	Anytime after the fifth (5) month, a Review Committee consisting of the Louisiana Oil Spill Coordinator or his designee, the OSRADP Administrator or Assistant Administrator, and one Proposal Review Board member from industry or academics will visit each project.
Nov	PI's submit a detailed written quarterly progress and financial report to the OSRADP. In addition, the Administrator will visit or telephone each principal investigator to check on the status of his or her research.
Nov	If deemed necessary, a formal presentation(s) on any project will be held in the seventh (7) month.
Dec	Visit or telephone each PI to check on the status of their research.
Feb	PI's submit a detailed written quarterly progress and financial report to the OSRADP.
Feb	Two year projects' annual review submitted to the Review Committee.
Apr	The Administrator or Assistant Administrator will visit or telephone each PI associated with a one year project to check on the status of their research.
May	Final deliverables/products due.
May	Participation in a LOSCO-sponsored research forum.

As part of the general review process, the OSRADP will periodically conduct a comprehensive assessment of the effectiveness of each subcontract or letter agreement. At a minimum, institutions receiving funds from the program will be required to provide detailed quarterly progress and financial reports (see Table 2) on each subcontract or letter agreement. This report will contain a brief description of findings and accomplishments, difficulties that have affected or could affect the progress or work, personnel changes, facilities, significant technical problems, and a statement that reflects any significant change in the course of work or any new methodology. This documentation is critical and must outline clearly the expenditures for the quarter and the progress made in meeting the project's deliverables. An annual and/or final document containing all information necessary to assess the effectiveness of each subcontract or letter agreement funded at that institution is also required. As appropriate, the Proposal Review Board, along with the Oil Spill Coordinator's staff, will be utilized in the evaluation process. **Specific reporting dates and deadlines will be identified in the subcontracts or letter agreements.**

To assess the status of each subcontract or letter agreement, a Review Committee consisting of the

Louisiana Oil Spill Coordinator or his designee, the OSRADP Administrator, and one Proposal Review Board member from industry or academics will visit, at a minimum, each project after the first five (5) months. In some cases, principal investigators may be invited to the Louisiana Oil Spill Coordinator's Office to discuss the status of their projects with the Proposal Review Board, the OSRADP Administrator and/or the Louisiana Oil Spill Coordinator, or they may be asked to give a formal presentation to the Oil Spill Interagency Council. If deemed necessary, these presentations will be held in the seventh (7) month after the project is initiated. The Administrator or Assistant Administrator will visit and review any project unannounced and request formal presentations based upon his or her review anytime after the third (3rd) month. Sometime after March 1, 2008, the principal investigator will be requested to make a formal presentation concerning the OSRADP-funded research endeavor.

If, in the determination of the Louisiana Oil Spill Coordinator, the principal investigator fails to fulfill in a timely and proper manner the obligations set forth in his or her proposal or violates any of the covenants, agreements, or stipulations of the subcontract or letter agreement, the OSRADP Administrator, with approval of the Oil Spill Coordinator, shall have the right to terminate the subcontract or letter agreement by giving written notice sent certified mail (return receipt requested) to the principal investigator of such termination and specifying the effective date thereof, at least seven (7) days before the effective date of such termination.

B. Miscellaneous

In the event a successful principal investigator accepts employment at another of the 19 eligible universities, other than the institution to which the original subcontract or letter agreement was granted, the principal investigator must make the necessary arrangements for transfer of the project to the new institution. However, the following restrictions shall apply to such transfers:

- a. the OSRADP must be notified in writing within seven (7) working days of a change in employment;
- b. changes in the schedule for deliverables will not be allowed except in extraordinary circumstances; and
- c. the principal investigator's salary as set forth in the proposal shall remain the same. Thus, rebudgeting to allow for a salary increase will not be allowed.

In the event a co-principal investigator accepts employment at one of the eligible universities, other than the institution to which the original subcontract or letter agreement was granted, the co-principal investigator must receive prior written approval from the principal investigator to continue on the project. The following restrictions shall apply as well:

- a. the OSRADP must be notified in writing within seven (7) working days of a change in employment;
- b. changes in the schedule for deliverables will not be allowed except in extraordinary circumstances; and
- c. the co-principal investigator's salary as set forth in the proposal shall remain the same. Thus, rebudgeting to allow for a salary increase will not be allowed.

In the event a successful principal investigator or co-principal investigator accepts employment at a university that is ineligible to participate in the OSRADP, the following restrictions shall apply:

- a. The principal investigator for the project shall notify the OSRADP immediately.
- b. The principal investigator or co-principal investigator must formally resign as principal investigator or co-principal investigator (whichever the case may be) from the project as soon as the new employment becomes effective and the institution must appoint a new principal investigator within five (5) working days; and
- c. With prior written approval from the institution, the principal investigator (or new principal investigator) **and** the Louisiana Oil Spill Coordinator, the former principal investigator or co-principal investigator may be retained as a consultant, provided his or her salary as set forth in the proposal remains the same, and the salary and costs directly related to accomplishment of the deliverables do not exceed 25% of the funds expended in the research year on the project.

C. Instructions for Preparation of Proposal Budget (Appendix H)

1. General

- Each proposal must contain a proposal budget in this format.
- A separate form should be completed for each year of support requested. An additional form showing the cumulative budget for the full term requested should be completed for proposals requesting more than one year's support. Circle each year's request at the top of the form.
- Completion of this budget does not eliminate the need to fully document and justify the amounts requested in each category. For example, if appropriate, a description of potential private sector/industrial participation in the project should be included. Contributions of funds, equipment, and services by the private sector also must be described in detail. This type of documentation must be provided on additional pages(s) immediately following the budget in the proposal and must be identified by the line item. The documentation page(s) must be titled **“Budget Explanation Page.”**
- If a revised budget is required by the Oil Spill Coordinator or the Proposal Review Board as a result of the review process, it must be signed and dated by the Authorized Organizational Representative and Principal Investigator and submitted in at least the original and two copies.

2. Budget Line Items

All documentation or justification of the line items below must be provided on the Budget Explanation Page.

The following is a brief outline of budget documentation requirements by line item.

- a. Senior Personnel** - On the “Budget Explanation Page,” list individually all research personnel, the requested person months or percentage of time to be funded, rates of pay, amount of OSRADP funds requested, and amount and source of matching funds. The person months or percentage of time should indicate whether the employee will devote time to this project during the academic year, summer, or calendar year.
- b. Other Personnel** - On the “Budget Explanation Page,” list individually all other personnel (i.e. research associates) as appropriate for line items A.1 through A.5, the requested person months or percentage of time to be funded, rates of pay, amount of OSRADP funds requested, and amount and source of matching funds. The person months or percentage of time should indicate whether the employee will devote time to this project during the academic year, summer, or calendar year.
- c. Fringe Benefits** - Indicate the basis of computation of the fringe benefits. This amount must not exceed the institutional federally approved fringe benefit rate. Include a copy of your institution's federally approved rate agreement.
- d. Permanent Equipment** - For each item exceeding \$250, list the item and amount. Fully justify the need for each equipment item.
- e. Travel** - Address the type and extent of travel and its relation to the project in accordance with Section V(C)(11)(f). Travel must be outlined clearly in each proposal and will be considered approved, except travel to professional meetings, when subcontracts or letter agreements are awarded by the OSRADP Administrator. Itemize by destination and cost. Fare allowances are limited to round-trip, jet-economy rates. All travel must be based on appropriate state rates. Foreign travel is not allowed.
- f. Supplies** - General office supply items needed for a project (**e.g. pencils and pads for field work, binders for reports, etc.**) must be separately identified and justified.

(For OSRADP Use Only)

Year 1 _____ Year 2 _____ Proposal Number: _____
Total _____
(For Office Use Only)

APPENDIX D - PROPOSAL COVER PAGE

By signing and submitting this proposal, the signatories are certifying that (1) the proposed research has not already been funded/is not currently being funded/has not been promised funding; (2) the institution and the proposed project are in compliance with all applicable Federal and State laws and regulations, including, but not limited to, the required certifications set forth in (a) Grants for Research and Education in Science and Engineering, NSF 92-89 (rev. 10/92); and (b) Appendix C, 45CFR 620, Subpart F (Requirements for a Drug-Free Workplace).

Name(s) of Submitting University(ies):

Phone, Fax Number, and Address of the Research Department of the Submitting University (include Dept/Unit, Street Address/P.O. Box Number, City, State, Zip Code)

Title of Proposed Project (Title of Pre-proposal, if different):

Funds Requested (pre-proposal request)

Cost Share/Match (pre-proposal commitment)

Year 1 \$ _____ (\$ _____)

\$ _____ (\$ _____)

Year 2 \$ _____ (\$ _____)

\$ _____ (\$ _____)

Proposed Duration:

(Circle # of Yrs.) 1 2

Name/Title (typed):

Dept/Telephone #

**Highest
Degree/Year
Granted**

Head(s) of Department(s)/Unit(s):

Signature _____

Principal Investigator/Project Director:

Signature _____ **Email** _____

Name/Title (typed):	Dept/Telephone #	Highest Degree/Year Granted
---------------------	------------------	-----------------------------

Co-Principal Investigator:

Signature -----

Co-Principal Investigator:

Signature -----

Co-Principal Investigator:

Signature -----

-----	-----	(____)-----
Campus Head or Authorized Institutional Representative	Date	Telephone #

-----	-----	(____)-----
Dean	Date	Telephone #

-----	-----	(____)-----
Authorized Fiscal Agent	Date	Telephone #

(For OSRADP Use Only)

Proposal Number: _____

(For Office Use Only)

APPENDIX E- INSTITUTIONAL SCREENING ASSURANCE

The OSRADP's policy requires proposals be carefully screened by appropriate campus personnel to ensure no conflict of interest exists (as defined in the "Code of Governmental Ethics," R. S. 1950, as amended, Title 42, Chapter 15) and the proposal meets the objectives and eligibility requirements as defined in this RFP prior to submission to the OSRADP.

Appropriate signatures on this institutional screening form will be considered a guarantee that no conflict of interest exists with the subcontract "boiler plate" and that the proposal

- has been reviewed and approved for submission to the OSRADP by all appropriate institutional officials who regularly are required to review proposals submitted for external review, including the submitting organization's authorized fiscal officer;
- has met the objectives, eligibility requirements, and all other appropriate criteria as set forth in this RFP (e.g., the department or unit has been requested to submit a proposal by the Oil Spill Coordinator);
- is in the format required by the OSRADP; and
- where appropriate, has been reviewed by campus officials.

Appropriate University Representative

Date

(For OSRADP Use Only)

Proposal Number: _____

(For Office Use Only)

APPENDIX F - ABSTRACT/PROJECT SUMMARY

The abstract/project summary should include a concise description of the project with a clear statement of objectives and an outline indicating how the project will proceed. The abstract/project summary should also explain **concisely** how the proposed project will meet the objectives of the OSRADP as outlined in the pre-proposal. The Advisory Panel requests proposals address issues that have a direct practical application to Louisiana's environment. In addition, the proposed research must show a potential for wide-spread field application and demonstrate an increased, measurable, enhanced response efficiency. Be clear on how the proposed research effort will meet these criteria.

ABSTRACT (DO NOT EXCEED 500 WORDS):

(For OSRADP Use Only)

Proposal Number: _____

(For Office Use Only)

APPENDIX G - BIOGRAPHICAL SKETCH

Photocopy this page for each person. Please attach biographical sketch for all research personnel.

NAME (P.I; Co-P.I; Graduate Assistant)

POSITION/TITLE

_____	_____
_____	_____
_____	_____

Begin with the principal investigator/program director and provide a biographical sketch for all research personnel. Research personnel includes the principal investigator, co-principal investigator, research associate, and all other individuals who participate in the scientific development or execution of the project. Research personnel typically will include all individuals with doctoral or other professional degrees, but in some projects may include individuals at the masters or baccalaureate level provided they contribute in a substantive way to the scientific development or execution of the project. List, in chronological order, the titles, all authors, and complete references to all publications during the past three years and a representative sample of earlier publications pertinent to this proposal. Please note and explain all ongoing research. **DO NOT EXCEED TWO PAGES.**

EDUCATION (Begin with baccalaureate or other initial professional education and include postdoctoral training).

**INSTITUTION & DEGREE
CONFERRED**

YEAR

**FIELD OF
STUDY**

LOCATION

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

RESEARCH AND PROFESSIONAL EXPERIENCE: Note present position and list in chronological order previous employment, experience, and honors. Include a list of current public or private-funded research and the time committed to each project and the assigned tasks of all key research personnel.

VI. APPENDIX: PROJECTS FUNDED FROM THE OSRADP'S 1993 TO 2006 RESEARCH AGENDAS

Since the initiation of the Louisiana Applied Oil Spill Research and Development Program a highly diverse group of projects have been funded. For your benefit, the following list represents all projects funded by the OSRADP - 139 subcontracts/letter agreements in support of 97 projects - 42 were funded for two years!!!

A. 1993-1994 Funded Projects

1. Projects completed 31 May 1995

- Oil spill awareness through geoscience education (OSAGE).
- Potential impact of used oil recycling in Louisiana's coastal fishing communities.
- Evaluation and characterization of sorbents in removal of oil spills.
- Baseline information for a spill risk index.
- Effects of oil and chemical responses on fresh marsh function and oil degradation: response implications.
- Environmental effects and effectiveness of *in-situ* burning in wetlands: guidelines for oil spill cleanup.
- Merging Landsat TM and synthetic aperture radar to facilitate coastline delineation and classification of the Louisiana coast.
- Assessment of ammoniated organic wastes for remediation of oil-contaminated wetlands.

2. Projects completed 30 April 1996

- Evaluation of habitat sensitivity to oiling use of cleaners for removing oil from vegetation.
- Evaluation of habitat responses to *in-situ* burning as a method of oil removal.
- Bioremediation protocol for small scale oil spills in Louisiana marshlands.
- Biodegradation of toxic chemicals from petroleum and produced waters, brackish marsh sediments: pathway studies and degradation rate enhancement using deuterated tracers.

B. 1994-1995 Funded Projects

1. Projects completed 31 May 1996

- Oil spill awareness through geoscience education (OSAGE): concepts, activities, and resources for Louisiana classrooms.
- Modeling the Mississippi: oil spill risk on Louisiana's largest waterway.

2. Projects completed 30 April 1997

- Baseline experimental studies for onshore oil spills.
- Effectiveness of solidifiers to combat oil spills.
- Use of ammoniated cellulolytic materials for remediation of oil-contaminated wetlands.

C. 1995-1996 Funded Projects

1. Projects completed 31 May 1997

- Modeling the Mississippi: barge traffic and the transportation of oil on Louisiana's largest waterway.
- Predictability of oceanic and atmospheric conditions off the Mississippi delta.
- Semi-automated construction of the Louisiana coastline digital land/water boundary using Landsat TM data.
- River time-of-travel modeling: computer program extension, enhancement, distribution, and training.
- Effectiveness and impact of cleaner/dispersants in removing oil from freshwater habitats.

2. Projects completed 30 April 1998

- Phytoremediation for oil spill cleanup and habitat restoration in Louisiana coastal marshes.
- Engineered application of bioremediation to oil spills in coastal wetlands: a field trial.
- Composting technology for practical and safe remediation of oil-spill residuals.

D. 1996-1997 Funded Projects

1. Projects completed 31 May 1998

- Utilization and integration of the "Oil spill awareness through geoscience education (OSAGE)" curriculum and CD for education and industry in Louisiana.
- Survey of Louisiana seabird colonies to enhance oil spill response.
- Research, compilation, and digitizing of undocumented and abandoned Louisiana pipelines for the statewide pipeline digital database.
- Unassisted and enhanced remediation studies for onshore oil spills.

2. Projects completed 30 April 1999

- Development of a sensitivity index for plant responses to applied oil.
- The interaction between oil spills, chemical responses, and fresh marsh types in determining toxicity to indigenous aquatic animals and the detail of hydrocarbon analysis required to predict this toxicity.
- Effects of crude oil and spill-response-options on microbial functions and oil disappearance in salt marsh soils.

E. 1997-1998 Funded Projects

1. Projects completed 31 May 1999

- Training selected groups in the utilization of the Louisiana oil spill contingency plan map CD-ROM.
- A test and refinement of a risk model for vessel traffic on the lower Mississippi River
- Emergency management river oil spill models.
- Investigation of undocumented and abandoned Louisiana pipelines, south of 31° N, for the statewide pipeline digital database.

2. Projects completed 30 April 2000

- *In-Situ* burning and phytoremediation studies for onshore oil spills.

- Effects of inundation environment on phytoremediation by fresh and brackish marsh plants for oil spill cleanup.
- Use of donor seed banks in terrestrial vegetation recovery after an oil spill.

F. 1998-1999 Funded Projects

1. Projects completed 31 May 2000

- Interdisciplinary exploration of Louisiana using OSRADP's satellite imagery.
- Phytoremediation of petroleum: identification of plant traits that enhance degradation.
- Satellite and GIS data base of Louisiana: a continuation of training.

2. Projects completed 30 April 2001

- Effects of inundation environment on phytoremediation by fresh and brackish marsh plants for oil spill cleanup.
- Wave-current online information system for oil spill contingency planning.
- Remediation and restoration of an oil contaminated wetland and pine forest site.
- Factors controlling wetland recovery after *in-situ* burning for oil remediation.
- The production and analysis of an oil spill database for Louisiana.
- Trajectory analysis planner program for the Calcasieu estuary.
- Boat ramp and launch site inventory, southwest Louisiana coastal zone.
- Oil and hazardous spill access point inventory for southeast Louisiana.

G. 1999-2000 Funded Projects

1. Projects completed 31 May 2001

- Use of wicks to promote *in-situ* burning of spilled oil on open water and soil.
- The use of phytoremediation, biostimulation, and aeration for the restoration and cleanup of non-hazardous oil pits and related NOW sites.
- A legal guide to Louisiana's oil spill prevention and response act and associated programs.
- Assessment of the role of anaerobic biodegradation of crude oil in natural recovery.
- The role of plant-bacterial-fungal interaction in remediation of oak-hickory-pine systems.

2. Projects completed 30 April 2002

- Arthropod indicators of onshore oil spill severity.
- LA GIS CD V.2: continuation of demonstrations.

H. 2000-2001 Funded Projects

1. Projects completed by 31 May 2002

- Research and development of a GIS for oil and gas transmission pipelines in Baton Rouge.
- Re-evaluation of soil from *in-situ* and phytoremediation studies for onshore oil spills.
- Wave-current online system for oil spill contingency planning.
- Revegetation of oil brine spill sites.
- Trajectory analysis planner for Sabine Lake.

- Development of a rapid survey technique for living resources in Louisiana's fresh marshes.
- Digital access to aerial videotape survey data of Louisiana's coast.
- Oil and hazardous waste access point inventory of river parishes and northern Lake Pontchartrain.

2. Projects completed by 30 April 2003

- Field investigation and digital mapping of pipeline crossings of the Red and Atchafalaya rivers in Louisiana.
- Detecting the chronic effects of oil development in Caddo Lake.

I. 2001-2002 Funded Projects

1. Projects to be completed by 31 May 2003

- Petrochemical hazards in a major hurricane flood within the levee system of New Orleans-GIS analysis of oil spill and public health concerns.
- Wave-current online system for oil spill contingency planning.
- Strain selection of AM fungi for restoration of oil/brine spill sites.
- Restoration of an oil spill site: hydroseeding and bioremediation.
- Historical analysis of oil spills in Louisiana.

2. Projects to be completed by 30 April 2004

- Aerial videotape survey of both banks of the Mississippi River in Louisiana - Arkansas to the Gulf of Mexico.
- Dispersant effects on wetland vegetation: toxicity evaluation and oil remediation.
- Research and development of a GIS for oil, gas and petrochemical transmission pipelines in Sulphur, Westlake, and Lake Charles, Louisiana.
- A pipeline GIS for Monroe and Shreveport.
- Oil and chemical spill contingency plan for the lower Mississippi River.

J. 2002-2003 Funded Projects

1. Projects to be completed by 31 May 2004

- Quantitative evaluation of in-situ fluorometry for continuous monitoring during near shore dispersant applications.
- Wave-current online system for oil spill contingency.
- Dispersant effects on wetland vegetation: toxicity evaluation and oil remediation.
- Research and development of a GIS for oil, gas, and petrochemical transmission pipelines in Sulphur, Westlake, and Lake Charles, LA.
- Field investigation and digital mapping of pipeline crossings of the Ouachita/Black River system in LA.
- Aerial videotape survey of both banks of the Mississippi River in Louisiana - Arkansas to GOM.
- A pipeline GIS for Monroe and Shreveport.
- Oil and chemical spill contingency plan for the lower Mississippi River.
- Development of an oil brine spill restoration plan - preliminary work.

2. Projects to be completed by 30 April 2005

- Field applications of AM fungi for restoration of oil/brine spill site.

K. 2003-2004 Funded Projects

1. Projects to be completed by 31 May 2005

- Training and research for blowout prevention utilizing full-scale well facility.
- Wave-current online system for oil spill contingency.
- A pipeline GIS for Monroe and Shreveport.
- Pioneering plants after oil spill: an inventory.
- Oil and chemical spill contingency plan for the Lower Mississippi River.
- Preliminary evaluation of natural dispersion and the effects of turbidity on diesel fuels spilled in an aquatic environment.
- Research and development of a GIS for oil, gas, and petrochemical transmission pipelines in Lafayette, Louisiana's metropolitan area.
- Field investigation and digital mapping of pipeline crossings of the Gulf Intracoastal Waterway in Louisiana.
- Development of an oil brine spill restoration plan: preliminary work and symposium.

2. Projects to be completed by 30 April 2006

- Potential for restoration and remediation of oil-impacted habitats: determination of oil tolerance limits of coastal native dominant plants.

L. 2004-2005 Funded Projects

1. Projects to be completed by 31 May 2006

- Training and research for blowout prevention utilizing full-scale well facility.
- A pipeline GIS for North Louisiana.
- Development of an oil brine spill restoration plan-preliminary work and meeting.
- Remediation of oil-impacted habitats: determination of oil tolerance of coastal native dominant plants.
- R&D of a GIS for oil, gas and petrochemical transmission pipelines between Baton Rouge and New Orleans, Louisiana.
- Field investigation and digital mapping of pipeline crossings for the coastal zone's navigation channels in Louisiana.
- Interactive GIS WAVCIS products for oil spill contingency planning.
- Pioneering plants to remediate oil and brine spills.
- Use of an in-situ light scattering and fluorescence sensor to assess the dispersion of crude and fuel oils in marine and riverine environments.
- Derivation of an elevation tagged shoreline (land/water interface) from LOSCO/FEMA/LIDAR data in the coastal zone.
- Education-related proposal to develop oil-spill data sharing protocol with local government.

M. 2005-2006 Funded Projects

1. Projects to be completed by 31 May 2007

- Derivation of an elevation tagged shoreline (land/water interface) from

- LOSCO/FEMA/LIDAR data in the Louisiana coastal zone - Year 2
- Development of an oil brine spill restoration plan - preliminary work and meeting - Year 3
- Research and development of a GIS for oil, gas and petrochemical transmission pipelines between Baton Rouge and New Orleans, LA - Year 2
- The completion of a comprehensive investigation of pioneer plant species and oil stress indicators for successful restoration and remediation of oil-impacted wetlands
- Development of a traveling oil spill educational exhibit
- Cleaning up oil-contaminated muds in the aftermath of Hurricane Katrina using biopile-phytoremediation techniques
- Dispersants: an electronic bibliography on effectiveness, technological advances, and toxicological effects
- Nitrogen cycling in oil brine contaminated areas
- GIS in the classroom: professional development for middle and secondary teachers

N. 2006-2007 Funded Projects

1. Projects to be completed by 31 May 2008

- OSRADP Website re-design
- The completion of a comprehensive investigation of pioneer plant species and oil stress indicators for successful restoration and remediation of oil-impacted wetlands - Year 2
- Research and development of a GIS for oil, gas, and petrochemical transmission pipelines between Baton Rouge and New Orleans, Louisiana - Year 3
- Rates of recovery of crude oil in sediments development of the Meraux canal system as a long-term recovery study site
- Development of a traveling oil spill educational exhibit - Year 2
- A pipeline GIS for North Louisiana - Year 4
- Electrochemical oil spill prevention
- Dispersants: an electronic bibliography on effectiveness, technological advances, and toxicological effects
- Updating an oil spill CD

O. Spill of Opportunity Projects

1. Project completed August 1996

- Application of microtox™ assay to establish and Evaluate the efficacy of *in-situ* burning of oiled marshes.

2. Project completed August 1997

- Potential for enhanced anaerobic BTEX degradation at the Blind River spill.

3. Project completed August 1998

- Oil spill in Lake Barre: economic and social consequences.

4. Project completed May 2002

- Follow-up surveys of inland sites where *in-situ* burning was used as a cleanup method.

5. Project completed July 2002

- Field investigation and digital mapping of pipeline crossings of Bayou Lafourche.
- 6. Project completed May 2003**
- Amelioration of oil contamination in a freshwater peat marsh: field application of organic and inorganic additives to stimulate the Recovery of *panicum hemitomon* (maidencane).