2008-2009 Smathers Libraries Mini Grant
APPLICATION COVER SHEET
Application due: October 1, 2008

Project Investigator Name: Kenneth Herniman
Department: Map & Imagery Library/ Government Documents
Email address: kenhern@uflib.ufl.edu Phone: 273-2532

Additional applicants, please give name and email for each:
Kenneth Solomon, kensolo@uflib.ufl.edu
Jennifer Farrington, jenfarr@uflib.ufl.edu

Title of grant:
Delayed Development: Exposing the Kennedy Space Center Film Collection

Project abstract (no more than 100 words):
Acquired through an agreement with NASA in 1981, the Kennedy Space Center aerial film collection is a unique, but hidden, resource in the Map and Imagery Library. An OPS employee will be hired to organize the 829 rolls of film in the collection before indexing them in a database, which will then be published online. This index will help provide access to this sorely underutilized collection. This mini grant is the initial, but necessary, step for writing further grants aimed at fulfilling the Memorandum of Understanding with the Kennedy Space Center by making digitized copies of the collection available online.

Funds requested (Limit of $5,000):
$2000.00

Describe how the 10% mandatory cost share will be met:
Ken Solomon will spend 25 hours evaluating each of the thirty seven missions’ paperwork before adding relevant information to the project’s database. Jennifer Farrington will publish the finalized database on the Map and Imagery Library’s website.

Please list the library resources to be used in this project and the name of the person authorizing the intended use and date authorized. If you need more room, continue on a separate page.

<table>
<thead>
<tr>
<th>Resource</th>
<th>Authorizing Individual</th>
<th>Date Authorized</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ken Solomon will help populate the database</td>
<td>Carol McAuliffe</td>
<td>29 September 2008</td>
</tr>
<tr>
<td>Jennifer Farrington will post the database</td>
<td>Carol McAuliffe</td>
<td>29 September 2008</td>
</tr>
<tr>
<td>online.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

I have my Department Head’s approval to submit this application.  _X_ Yes  _ ___ No

Signature  [Signature]  29 September 2008  Date
Delayed Development:  
Exposing the Kennedy Space Center Film Collection

2008-2009 Mini Grant Proposal

Map & Imagery Library  
Government Documents Department

Kenneth Herniman (primary)  
Kenneth Solomon  
Jennifer Farrington

Funds requested: $2000.00  
Funds to be provided via Cost Share: $419.21

2008-2009 Narrative

In 1981, the Kennedy Space Center, as part of a Memorandum of Understanding, transferred stewardship of a large and unique collection of aerial photography film as well as all the original notes to the University of Florida, Map & Imagery Library. According to the memorandum, the University agreed to make copies available to faculty and students for research while maintaining the condition of the original film. Since the transfer, over 25 years ago, the film has been stored in a climate controlled area, but access to the collection has been extremely limited to nonexistent. There is no inventory currently available for library patrons or staff servicing the collection of holdings. The proposed project will provide an understanding of the collection, help fulfill the University’s part of the memorandum, and also afford a sound basis to apply for a full grant to digitize the Kennedy Space Center collection.

The collection includes 829 rolls of black and white, color, and color infrared film of various sizes (9” x 9”, 70 mm, and 4” x 5”), each containing upwards of 100 photographic images covering thirty-seven separate missions. Each mission represents a research project conducted by the Kennedy Space Center in the 1970s in which a camera attached to a fixed-wing aircraft would take a series of photos over a specific region. A preliminary investigation has shown that said missions are predominantly for Florida projects, but also include study areas in Puerto Rico, the Virgin Islands, and several other states. An example of a typical mission is the photography for the “Biological Control of Aquatic Weeds in Florida,” which includes aerial photography of lakes in ten Florida counties from 1972 to 1976.

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1 At present, the Map and Imagery Library staff has been unable to locate the memorandum, but it is referred to in inter-departmental correspondence from the time of acquisition. See attached.
This project will accomplish the first step in uncovering this unique and underutilized resource. A working knowledge of the extent of the Kennedy Space Center collection was lost when the previous Map Librarian retired. Only a select few researchers are aware of the resource. By inventorying and indexing each mission, the staff will gain the ability to inform patrons of the level of coverage and provide access to information previously unavailable. This will simplify the search and discovery of library resources by increasing patrons’ ability to access the collection.

The research potential of the collection is enormous. Various academic departments have expressed interest in the collection, indicating their desire to utilize it the materials are accessible. The Map and Imagery Library’s current aerial photograph collection is one of its most popular collections, illustrating that once made available the Kennedy Space Center collection would soon be heavily used by researchers and consultants alike. Aerial photography can be employed for a variety of uses, such as vegetative analysis, land use planning, site selection, and location of materials. Two examples in which this collection has shown its usefulness are the exploration of pre-colonial fortifications and the forensic investigation of a murder case. Information gleaned from these photos would enhance research dealing with land, vegetation, and water, and would have practical application in agriculture, engineering, geography, geology, and geomatics.

Increasing the accessibility of this unique collection of Kennedy Space Center aerial films is the primary goal of this grant. However, it will also be a stepping stone in the fulfillment of the Map and Imagery Library’s obligation in the Memorandum of Understanding to provide access to the collection while preserving the originals. The organized inventory and index of the Kennedy Space Center collection will become the foundation for outside grant proposals. There is great potential for further grants to fund the continuation of this project. An inventoried understanding of the collection will be an integral part of future grants written to digitize the collection and to further increase its accessibility.

To accomplish the goals set forth, the principle investigator will hire an OPS employee to inventory the film and accompanying analysis. This employee will enter all pertinent information (such as county, date, flight number, scale, image tally, coordinates, etc.) regarding all thirty-seven mission projects into a database. Of the 829 rolls of aerial film, 636 are stored in marked canisters and 193 are in canisters with no external identification. Orlando Lanni, from the Department of Agriculture and Biological Engineering has already donated a portable light table to be used to retrieve any available textual information from the 193 unidentified rolls. Retrieving the information will require the OPS employee to scroll through the mission, frame by frame, in search of identifying details. Ken Solomon will then evaluate each mission’s accompanying paperwork, identifying and inventorying important reports, booklets, or other miscellaneous papers that may prove useful for researchers using the collection. Finally, Jennifer Farrington will assist in publishing the database on the Map and Imagery Library’s website allowing patrons to explore the index online.
The timeline for the project includes the hiring of an OPS employee, and the hours needed to complete the project. Using one roll as a guide, it is estimated that it will take 200 hours for the OPS employee to fully identify and record the information about the 829 rolls of aerial photography in the Kennedy Space Center collection. We expect the project to commence in December 2008 and to be completed in June 2009 (see timeline).

Completion of the inventory and its subsequent publishing will determine the success of the project. This grant will create a fully inventoried, processed, and organized aerial photo sub-collection along with a browsable online index. Patrons will be able to browse the index online, and those who come into the Map and Imagery Library will be granted limited access to the Kennedy Space Center collection. As mentioned before, this grant is an essential first step towards a larger vision of providing world-wide access to this unique collection. Recognizing that repeated use would erode the original film, the Map Library will seek out further funds to digitize the collection in order to maintain its integrity. The products of this mini grant are necessary to progress towards a fully accessible collection.
MINI GRANT PROGRAM DOCUMENTATION

2008-2009 Application Budget Worksheet

Please add lines to table as needed. If you need help completing this form, please contact Grace Strawn in the Business Office 273-2555.

1. Salaries and Wages (no fringe benefits required)

<table>
<thead>
<tr>
<th>Name of Person</th>
<th>Salary/hour</th>
<th>Hours</th>
<th>% of effort</th>
<th>Grant Funds</th>
<th>Cost Share</th>
<th>Total</th>
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</thead>
<tbody>
<tr>
<td>Kenneth Solomon</td>
<td>$15.41/hr</td>
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<td>15.93%</td>
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<td>Jennifer Farrington</td>
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<td>OPS Hire</td>
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<td>82.67%</td>
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| SUBTOTAL | 2,000.00 | 419.21 | 2,419.21 |

2. Equipment

<table>
<thead>
<tr>
<th>Item</th>
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<th>Grant Funds</th>
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<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>In house computer</td>
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<td>$0.00</td>
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<td>0.00</td>
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<tr>
<td>Donated film viewer</td>
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<td>$0.00</td>
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<td>0.00</td>
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| SUBTOTAL              | 0.00               | 0.00        | 0.00       |

3. Supplies

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</thead>
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<td>0.00</td>
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<tr>
<td></td>
<td></td>
<td>35</td>
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4. Travel

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<tr>
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<td>0.00</td>
</tr>
</tbody>
</table>

| SUBTOTAL              | 0.00               | 0.00        | 0.00       |

5. Other (services vended, etc.)

<table>
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<th>Total</th>
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<tr>
<td>Not Applicable</td>
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| SUBTOTAL              | 0.00               | 0.00        | 0.00       |

Total Direct Costs (add subtotals of items 1 through 5)

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<tbody>
<tr>
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### 2008-2009 Smathers Libraries Mini Grant

**Time Line**

**Delayed Development: Exposing the Kennedy Space Center Film Collection**

Kenneth Herniman  
Project Investigator

<table>
<thead>
<tr>
<th></th>
<th>December</th>
<th>January</th>
<th>February</th>
<th>March</th>
<th>April</th>
<th>May</th>
<th>June</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hire OPS employee</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>OPS Employee indexes film</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ken Solomon analyzes Mission folders</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jennifer Farrington uploads data to website</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Write final report</td>
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<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
September 30, 2008

Dear Grants Management Committee,

I am writing this letter to show my strong support for the grant: Delayed Development: Exposing the Kennedy Space Center Film Collection. This unique collection needs to be “exposed” to researchers at the University of Florida and eventually to researchers around the world in digital format. The proposal calls for funding of the first step in the exposure process which is to inventory this unique and underutilized resource. This is exactly the type of project for which the mini-grants are intended. It is a creative project that clearly has the potential to attract additional funding for the library and would lead to important collaborations with academic departments on campus. In addition it definitely supports the mission of the library and allows us to better fulfill the terms of the Memorandum of Understanding with the Kennedy Space Center.

It will be exciting for the Map & Imagery staff to see the project unfold. As the proposal states, the content of the collection is largely unknown. Once the inventory has been completed and made available via the Map & Imagery Library’s web site, it will be an invaluable tool for researchers wanting to use the collection as well as for future efforts to secure funding for its digitization.

I encourage the committee to fund this worthy project that will bring additional recognition to the already famous Map & Imagery Library.

Let me know if you have any questions.

Sincerely,

Jan Swanbeck
Chair, Documents Department
Dr. James M. Davidson  
Assistant Dean for Research  
1022 McCarty Hall, IFAS  
University of Florida  
Gainesville, Florida 32611

Dear Jim:

Around July of 1981, the Data Analysis Facility of the Kennedy Space Center terminated photographic research and image analysis with the optical system. The large film library of all the photographs obtained for the projects of the Earth Resources Branch was considered excess and no plans made for its relocation.

At my request, Mr. U. Reed Barnett and Mr. James Spears of Special Projects at KSC approved the transfer of all the original rolls of black and white, color and color infrared film of various sizes (9"x9", 70 mm, and 4"x5") film to the Map Library, Library West, of the University of Florida.

The agreement made with them was that the University Library and I would make every effort to catalog the entire collection of film rolls so we would all know what we had. The concept I proposed was for the Map Library to have the copies for use by graduate students and faculty in need of Florida aerial photographs. The original copies were to be kept in a proper environment and used only when necessary to choose frames for duplication. I had originally intended to provide the Map Library with a light table or have one manufactured at the IFAS shops.

On October 1, 1981, I personally moved about 800 rolls of film to the Map Library and left them in the care of Dr. Helen Armstrong, Head of the Map Library. At considerable effort, she had the rolls pertaining to KSC projects cataloged by hand and provided me a list sometime after. A considerable number of rolls of film not recorded in the KSC projects remains to be cataloged.

Dr. Armstrong has no resources or viewing systems so at my last visit with her, I suggested the entire collection of film originals and copies perhaps ought to be moved to the Remote Sensing Facility since the viewing systems are there and the original storage cabinets from the DAF are now located at Building 168. The unfortunate part of such a move will be the reduced possibility of use of the copies since there is no space to spreads out maps and satellite imagery in Building 168.

At your earliest opportunity, I would appreciate it if you would decide where and when all this film will be assembled for use.

The Kennedy Space Center is most anxious of having an operational viewing system, whether in the Library West or at Building 168 so long as the films are available for searches to scientists.
Dr. James M. Davidson...

Included in the agreement with KSC was a clause where any or all the originals could be recalled to KSC for their own use. It was implied that the copies would not be in very good condition after use by students but the originals should remain in excellent condition for duplication.

The original film has been stored on the third floor of the General Purpose Building and are in storage condition so a retrieval system is needed.

Dr. Robert Lindquist of the Geology Department is interested in keeping the copies and might be persuaded to catalog them.

I feel I am responsible for obtaining a desirable arrangement so I would appreciate your suggesting whatever changes you deem necessary.

Best regards.

Sincerely,

C.H. Blazquez
Assistant Professor
Remote Sensing

CHB-jr

cc-Dr. Jim Henry
    Dr. Robert Lindquist
    Dr. Helen Armstrong
    Mr. U. Reed Barnett
    Mr. James Spears
During March, 1983 several projects reached fruition which will have long term affects on the research capabilities of the library and its patrons.

The status of the aerial photography transferred from the Kennedy Space Center has been clarified. The large film library of the Data Analysis Facility of the Kennedy Space Center which was transferred includes original and duplicate rolls of black and white, color and color infrared film of various sizes (9½ x 12, 70mm and 4½ x 5) and is currently valued at $800,000.00. All of the computer and optical equipment were transferred to IFAS to form the new Remote Sensing and Image Processing Laboratory. IFAS has agreed to the transfer of a $25,000.00 film reader to the Map Library so the film may be used within the Map Library. The research potential for the Laboratory/Map Library remote sensing image collection is enormous, particularly for Florida. (See attached letter Dr. James Davidson.)

Total patron use of the Map Library increased in March despite the week of Spring Break. Over 80% of patrons using the Map Library needed reference assistance with an average reference interview/search lasting 13 minutes. Each patron was only counted once despite multiple requests.

Monthly Statistics
March Patron Use

| Total Patrons Using Map Library | 762 |
| Total Patrons Receiving Reference Assistance | 589 |
| Total Maps Circulated | 747 |

The number of non-University Map Library patrons remained constant at approximately 34% of the total user count. During one week both the St. Johns and Southwest Water Management Districts sent researchers to use the Library's air photography collection. In addition West Florida Water Management District phoned concerning use of the Florida aerial photographs. The St. Johns Water Management District researchers have used the aerial photographs repeatedly in the last six weeks and rare archival Florida aerial photos have been lent to them on special permission.