

User Guide for the ALS-NSCORT collection

Published materials series

Background:

The Advanced Life Support – NASA Specialized Center Of Research and Training (ALS-NSCORT) center was a multi-university, inter-disciplinary research center based at Purdue whose purpose was to explore and develop ways of supporting long-term human habitation in outer space.

ALS-NSCORT and the Purdue Libraries have created a digital preservation system for the research materials generated by the ALS-NSCORT project within the Libraries institutional repository, e-pubs, for the purpose of preserving information about the work done by the center for the short term. Preserving information about the work done by ALS-NSCORT was done to assist in efforts to re-establish the ALS-NSCORT center at Purdue and to inform the future researchers of this center of the work that had been done and the progress that had been made.

The ALS-NSCORT collection is composed of three series:

- **Annual and Monthly Reports** – This series consists of reports made to sponsors and other agencies. These items are available in e-pubs to anyone.
- **Published Materials** – This series consists of information about the publications that resulted from the research done through ALS-NSCORT center. ALS-NSCORT is not the copyright holder of these publications and therefore these items are not available in e-pubs directly.
- **Internal Documents** – This series consists of documents, presentations, data, and other materials that were created and used as a part of the work that was done by ALS-NSCORT. This material is still actively being used and therefore access to these items is restricted to authorized individuals. To inquire about authorization please contact the project administrator, Dave Kotterman – dkotter@purdue.edu.

Metadata Fields for the published materials series:

Title:

This field is used to identify the title of the item as listed within the item itself.

Author:

This field is used to identify for all named authors of the resource as listed in the item itself. In cases where no author is clearly identified, ALS-NSCORT shall be listed as the corporate author.

Abstract:

This field is used to display an abstract of the item (if one exists).

Description:

This field provides an indication of the length of the item, such the number of pages of the item, the number of slides or the number of worksheets.

Date of Publication:

This field is used to denote the date the item was published.

Identifier:

This field is used to denote the identifier given to the item by the preservation project team to manage the items within the collection and connect them with their metadata.

Publisher Identifier:

This field contains information about the item as assigned by its publisher. In cases where the item has been published by SAE, the items SAE number is provided. In other cases, the information needed to create a citation to the item is provided. If available and known the item's Digital Object Identifier (DOI) is provided in this field.

Publisher:

This field lists the publisher of the item. The publisher is defined as the entity responsible for making the item available.

Focus Area:

This field is used to identify which of the seven ALS-NSCORT's focus areas pertains to this item. The seven possible focus areas are:

- Solid Waste Resource Recovery
- Water Recycle and Air Revitalization
- Food Safety and Processing
- Edible Biomass/Crop Production
- Education and Outreach
- Systems Analysis and Integration
- Center Administration

Project Number:

This field is used to identify which of the eighteen ALS-NSCORT's projects pertain to this item. The eighteen possible projects are:

- Project 0 – Center Operations
- Project 1 – STAR.
- Project 2 – Nitrogen Cycling in Advanced Life Support.
- Project 3 – LiFT.
- (There is no Project 4)
- Project 5 – Membranes.
- Project 6 – BREATHe.
- Project 7 – Biofiltration for Gaseous Trace Contaminant Removal for Advanced Life Support (BREATHe 2).
- Project 8 – Water Disinfection.
- Project 9 – Food Safety (pathogen detection).
- Project 10 – Tilapia.
- Project 11 – Crop Lighting Project. Project Lead: Cary Mitchell

- Project 12 – Fungi for Crop Waste Degradation/Edible Mushroom Production.
- Project 13 – Food Processing (storage and packaging of food).
- Project 14 – Food Safety 2 (food preparation and disinfection).
- Project 15 – Simulation Based Optimization Approach to Model and Design an Advanced Life Support System.
- Project 16 – Education.
- Project 17 – Mars Planetary Base Evolution Study (Mars ALS Roadmap)
- Project 18 - Plant-based Anaerobic-Aerobic Bioreactor Linked Operation (PAABLO)

Project Lead:

This field is used to identify the individual who served as the leader of the project with which this document is identified. (see “project number” field).

Keywords:

This field contains words or short phrases created by one or more of the authors to summarize what the item is about. This field is optional and not every item will have keywords associated with it.

Document Type:

This field is used to characterize the item according to its nature and purpose within ALS-NSCORT.

The five possible categories of types are defined as follows:

- Article - A scholarly, research or technical article whether published or unpublished.
- Dataset - The results of a simulation, a model or other numerically based outputs of research activities.
- Image - A visual representation other than text.
- Presentation – A document designed to share information about research, a particular project, or experiment at a conference or other venue.
- Text - A resource consisting primarily of words for reading, other than an “article” or “presentation” as defined above.

Language:

This field identifies the language the item was written in.

ALS-NSCORT Series:

This field denotes which series the item has been assigned.

Administrator:

This field is used to identify the administrator of the internal documents series of the ALS-NSCORT collection and to provide contact information for him or her. This is the individual to whom all questions and correspondence about the series should be addressed.

This is also the individual to whom requests for accessing the item itself should be addressed. (see the entry for the access field).

Rights:

This field contains a statement informing users that the material they are viewing is owned by the publisher (or other rights holder of the material) and that they do not have the right to use, alter,

distribute, etc. the item without prior approval from the publisher. If known a link to the publisher's home page and/or copyright statement is provided.

Access:

This field contains information about the availability of the item. All of the items listed in this collection are under copyright and therefore could not be uploaded into the repository itself. Instead, this field provides referral information as to where the item can be obtained.

These referral locations may include the following as appropriate:

- If the material is available (freely or for a fee) at the publisher's website, a URL to that website will be provided as long as the URL is stable.
- If the material is available electronically through one of Purdue's library databases, a URL to the article will be provided as long as the URL is stable
- If the material is available in print at one of the Purdue University Libraries, instructions on how to find the material will be listed in the record.

Unfortunately the URLs listed in this field are not able to be hyperlinked. Instead, the URL will need to be copied and pasted into the browser's address window.

Finding Items: Browsing

From the home page of e-pubs - <http://docs.lib.purdue.edu/>, click on "Departments and Centers at Purdue". Next scroll down until you see "Discovery Park" in the bulleted list. Beneath "Discovery Park" are links to the ALS-NSCORT collection.

Clicking on the first link, "Advanced Life Support - NASA Specialized Center of Research and Training (ALS-NSCORT)" will take you to a search box allowing you to search for materials in any of the three series.

Clicking on the other links, "Annual and Monthly Reports", "Published Materials" or "Internal Documents" will take you to a screen that displays the individual items within the series in reverse chronological order. It is also possible to browse items by the author's last name by typing in the last name of the desired author and clicking on "find".

Finding Items: Searching

It is possible to search all of the items in e-pubs, including the ALS-NSCORT collection from the home page of e-pubs - <http://docs.lib.purdue.edu/>.

It is also possible to limit a search to just the ALS-NSCORT collection or just one of the three series of the collection. From the home page of e-pubs - <http://docs.lib.purdue.edu/>, click on "Departments and Centers at Purdue". Next scroll down until you see "Discovery Park" in the bulleted list. Beneath "Discovery Park" are links to the ALS-NSCORT collection.

Clicking on the first link, "Advanced Life Support - NASA Specialized Center of Research and Training (ALS-NSCORT)" will take you to a search box allowing you to search for materials in any of the three series.

Clicking on the other links, “Annual and Monthly Reports”, “Published Materials” or “Internal Documents” will take you to a screen that displays the individual items within the series in reverse chronological order. Next, click on “search” which is located towards the top of the screen above the “browse by year” and “author last name” boxes. This will take you to a screen where you will be able to search for items within the series you selected.

No matter the scope of your search, be it everything in e-pubs, just the ALS-NSCORT collection or just one of the series in the ALS-NSCORT collection, searching using “simple search” matches your keywords with any field in the records for items in e-pubs.

Clicking on “advanced search” provides the opportunity to focus your search to a particular field. However, in order to meet the needs of ALS-NSCORT customized fields for each series had to be created. Many of these fields do not correspond to the fields listed in the advanced search options provided by e-pubs.

The following fields are compatible with the advanced search options:

- Last name
- First name
- Date
- Title
- Keyword (limited to items in the “published materials” series that have been assigned keywords)

For more information about the searching capabilities of e-pubs please click on the “help” icon (a blue button with a question mark inside) located above the search boxes.

Terms and Conditions of Use

ALS-NSCORT is not the copyright holder of the publications and therefore these items are not deposited in or available through e-pubs directly. Any questions regarding acceptable use of the publication itself or other issues of copyright should be directed to the publisher or other copyright holder. The copyright holder of each publication to the extent that could be determined is listed in the “rights” field of the item record.

If the administrators of e-pubs are notified of a potential breach of copyright, or receive a complaint indicating a violation of publishers’ rules or other relevant concern, the item involved will be removed from e-pubs as quickly as possible pending further investigation. Where the grounds for complaint are considered plausible, the material will be withdrawn from the repository.