



Roles of Librarians in Furthering the Institution's Research Agenda

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Learning Objectives

- □ The aims of this lecture are:
 - 1. to give an overview on various roles of librarians in the research cycle;
 - to present the realities and challenges faced by research librarians in furthering these new roles; and
 - to suggest innovations in library services and collections to encourage research among stakeholders.

Part I:

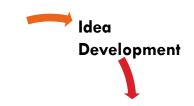
Librarians Roles in the Research Life Cycle



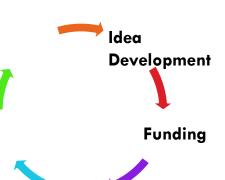
(Kwon, 2017; Vaughan et al., 2013; JISC, 2013; White, 2018)

Idea Development

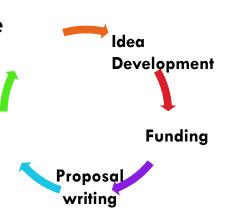
- are developed through structured activities
 - conducting literature searches, finding relevant resources, doing background reading, and attending presentations
- serendipity
 - by browsing journals, viewing displays, having conversations with colleagues, or surfing the web



- Funding and Partners
 - locating funding sources
 - making research team or finding researchers with similar interests by using formal and informal networks
 - potential research partners from academic disciplines, institutions, and organizations



- Proposal writing
 - presenting and justifying the need to study the research problem
 Association of Section 1.
 - presenting the ways how the proposed study should be conducted



- 4. Research Process / Conducting
 - varies across disciplines
 - researchers simulate, experiment and observe
 - researchers manage, analyze and share data



- 5. Publishing/Disseminating
 - scholarly journals
 - repositories
 - theses
 - research reports







Librarians' Role in Research Life Cycle



- 1. **Idea development** (Vaughan et al., 2013)
 - finding background literature
 - library catalogs
 - union catalogs, ex. WorldCat, COPAC, AMICUS, and LibraryLink (for Filipiniana collections)
 - bibliographic databases, ex. Web of Science (WOS), Scopus, IEEE Xplore Digital library, Ebsco, ProQuest, etc.
 - institutional repositories
 - Google Scholar
 - utilizing research tools effectively
 - locating data sources

- finding background literature
- utilizing research tools effectively
 - feasibility tests involve reviewing related literatures and executing mini-experiments
 - lab members also check the accessibility of lab equipment by consulting literature, company Websites or their catalogues, and consulting colleagues in and out of their lab, including online communities
- locating data sources



- finding background literature
- utilizing research tools effectively
- locating data sources
 - statistical data
 - FAOStat- nutrition, food, and agriculture related statistics of Food and Agriculture Organization of the United Nations member states
 - Philippine Statistics Authority (PSA)- population, health, education, agriculture, trade, poverty, etc. data of the Philippines
 - research data
 - data repositories- contains datasets of researches that were isolated for future use
 - deposition is usually a part of part of the manuscript submission process
 - multidisciplinary, ex. Dryad, FigShare, Pangea, etc.
 - subject specific, ex. GenBank, GitHub, PubChem, etc.
 - visit Registry of Research Data Repositories (https://www.re3data.org/) to search for subject specific data repositories

2. Funding

- identify specific grant opportunities
 - Department of Science and Technology (DOST)
 - National Research Council of the Philippines (NRCP) http://nrcp.dost.gov.ph/research-grants
 - Governmental, Educational, and International Policies, Mathematical Sciences, Medical Sciences, Pharmaceutical Sciences, Biological Sciences, Agriculture and Forestry, Engineering and Industrial Research, Social Sciences, Physics, Chemical Sciences, Humanities, Earth and Space Science, and Veterinary Medicine
 - Philippine Council for Agriculture, Aquatic, and Natural Resources Research and Development (PCAARRD) http://www.pcaarrd.dost.gov.ph/home/portal/
 - National Commission for Culture and the Arts (NCCA) https://ncca.gov.ph/about-ncca-3/grants-program/
 - types of research on Philippine cultural practices and artistic expressions are supported by the NCCA
- find alternative funding sources
 - academic institutions; local and international organizations

- things to consider when communicating grant opportunities to your faculty/researchers
 - ✓ deadline for submission
 - ✓ institute's research thrust
 - √ field of expertise
 - ✓ prepare a list of current researches in the field to guide your researchers
 - bibliographic databases
 - Google Scholar
 - patent libraries (ex. IPOPhil Patent Search, Espacenet, WIPO, USPTO)
 - communicate with your institute's Patent Office or Innovation and Technology
 Support Office (ITSO)

3. Proposal Writing

- access to project proposal forms
- research proposal writing tips
 - institutes research proposal guidelines
 - libguides (ex. USC Libraries https://libguides.usc.edu/writingguide/researchproposal)
- provide researchers access to related literature

4. Research Process

- provide researchers access to protocols and standards
 - ex. Official Methods of Analysis of AOAC International (Chemistry), APHA Standards Methods (water and wastewater), Codex Alimentarius (foods, food production and food safety) ISO Standards, etc.
- provide researchers access to statistical software
 - ex. SPSS, R, StatLab, etc.
- research data management
- manage citations (access to reference management software, ex. Endnote, Mendeley, Refworks, Zotero, etc.)
 - Google Scholar

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Any time

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Since 201 Since 201

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Mass mortality of Penaeus monodon larvae due to antibiotic-resistant Vibrio harveyi infection

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✓ include ✓ include

Major viral diseases of the black

TW Flegel - World Journal of Microbiolog

There are five different viruses which are commercial farming of the black tiger pra viruses cause disease in other penaeid

ี่ Nabanggit sa 603 Nauugnay

Effects of a probiotic bacterium of survival and growth

S Rengpipat, W Phianphak, S Piyatiratitiv

Sipiin

Karunasagar, Iddya, et al. "Mass mortality of Penaeus monodon larvae due to antibiotic-resistant Vibrio harvevi infection." Aquaculture 128.3-4 (1994): 203-209.

Karunasagar, I., Pai, R., Malathi, G. R., & Karunasagar, I. (1994). Mass mortality of Penaeus monodon larvae due to antibiotic-resistant Vibrio harveyi infection. Aquaculture, 128(3-4), 203-209.

KARUNASAGAR, Iddya, et al. Mass mortality of Penaeus ISO 690 monodon larvae due to antibiotic-resistant Vibrio harvevi infection. Aguaculture, 1994, 128.3-4: 203-209.

> BibTeX EndNote RefMan RefWorks

Bacillus S11 bacterium isolated from bla

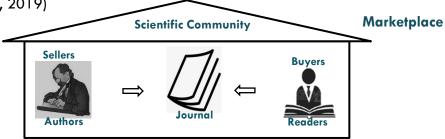
as a probiotic in three forms; fresh cells, fresh cells in normal saline solution, and a lyophilized form. After a 100-day feeding trial with probiotic supplemented and non ...

99 Nabanggit sa 621 Nauugnay na mga akda Lahat ng 8 mga bersyon

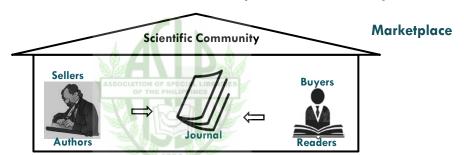
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5. Disseminating

- Select journals
 - What is a journal?
 - in librarianship, a newspaper or periodical particularly a periodical issued by a society or institution and containing news, proceedings, transactions and reports of work carried out in a particular field (Prytherch, 2005)
 - in scientific community, scientific journals represent the most vital means for disseminating research findings and are usually specialized for different academic disciplines or subdisciplines (APA, 2019)



What is the role of the scholarly scientific or professional journal?



- serve as both a filter and a curator for both sides of the market (Abbot, 2017):
 - to deliver novel, relevant, quality-assured articles to the reader; and
 - to bring a large, specific, relevant audience of readers to the author

- Tips in selecting journals for your researchers (Abbot, 2017):
 - consider its audience
 - consider its reputation
 - consider its timeliness in accepting papers for publication

- Tips in selecting journals for your researchers (Abbot, 2017):
 - consider its audience
 - most relevant audience for the work
 - if the result is intended for the general public, choose Open Access journal
 - look at where it is indexed (subject-specific indexes, ex.: PubMed, ASFA, etc.)
 - consider its reputation
 - consider its timeliness in accepting papers for publication

- Tips in selecting journals for your researchers (Abbot, 2017):
 - consider its audience
 - consider its reputation
 - an endorsement of a national association or learned society
 - an editorial board consisting of well known and respected people within the discipline
 - high-quality publisher
 - Age
 - Metrics
 - indexing/abstracting coverage
 - consider its timeliness in accepting papers for publication

What about metrics?

- used to measure journal impact or ranking
- based on the number of citations articles receive, signifying a journal's importance and influence
 - Journal Impact Factor (JIF or IF)
 - average number of times an article, from a journal published in the last 2 years, has been cited in the JCR year
 - from Journal Citation Reports (JCR), an Incites database from Clarivate Analytics, formerly Thomson Reuters and ISI
 - other metrics include CiteScore, SNIP (Source Normalized Impact per Paper),
 SCImago Journal Rank (SJR), Eigenfactor Score (EF)
 - Altmetrics- are alternative approaches to measuring the impact of a scholarly work, as demonstrated by users' interest in and engagement with it
 - track mentions of a work in social media outlets such as Twitter, blog posts, and research networking sites, plus use in newspapers or government policy documents



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Abstracting/Indexing

Track Your Paper

Order Journal

Sample Issue

Journal Metrics

> CiteScore: 2.32 ① Impact Factor: 1.459 ① 5-Year Impact Factor: 1.604 ①

Source Normalized Impact per Paper (SNIP): 2.499 ①

SCImago Journal Rank (SJR): 1.224

1.089 Impact Factor 5-Year Impact Factor 1.429 Journal Indexing & Metrics »

information systems journal

Edited By: Robert M. Davison

Impact factor: 4.267

ISI Journal Citation Reports © Ranking 2017: 6/88 (Information Science & Library Science)

Online ISSN: 1365-2575

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Indexing/abstracting coverage

- Directory of Open Access Journals (DOAJ)
- ProQuest
- PubMed Central (PMC)
- Scopus
- ERIC (Education Resources Information Center)
- Web of Science
 - Science Citation Index
 - Science Citation Index Expanded
 - Current Contents
 - Zoological Record
 - BIOSIS Previews
 - Emerging Sources Citation Index, etc.

- Indexing/abstracting (A&I) coverage
 - How to determine?
 - Visit the journal homepage and look for A&I webpage

DESCRIPTION AIMS AND SCOPE EDITORIAL BOARD ABSTRACTING / INDEXING SUBMISSION GUIDELINES

- Abi/inform
- · Academic Search Premier
- . Business Source Corporate
- Compendex
- Current Awareness Abstracts
- IBZ: International Bibliography of Periodical Literature
- . IBZ: International Bibliography of Periodical Literature in the Humanities and Social Sciences
- . Information Science and Technology Abstracts
- Inspec
- . Library Information Science Abstracts
- . Library Literature & Information Science
- SciVal
- Scopus
- · Sociological Abstracts

- Indexing/abstracting (A&I) coverage
 - How to determine?
 - Visit A&I website
 - Scopus: https://www.scopus.com/sources
 Scopus Preview

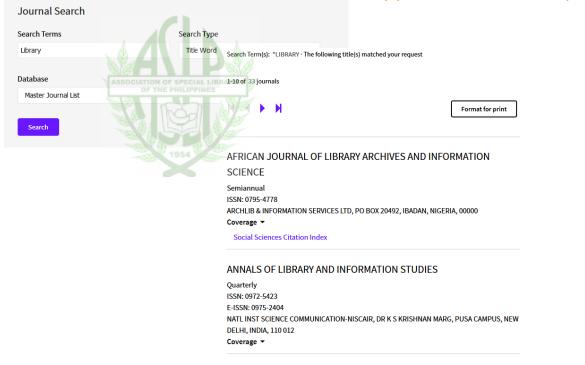
 Sources

 Subject area

 ☑ Enter subject area

 ☑ CiteScore metrics for journals and serials
 CiteScore metrics from Scopus are:
 Comprehensive
 Transparent
 Current and free
 Use this page to find a source and view associated metrics. Use qualitative as well as quantitative metrics when presenting your research impact.
 Always use more than one quantitative metric. Learn more about CiteScore.

Web of Science (Clarivate Analytics): http://mjl.clarivate.com/



Directory of Open Access Journals (DOAJ): https://doaj.org/



- Beware of Predatory Publishers (Beall, 2012)
 - publish counterfeit journals to exploit the open-access model in which the author pays
 - are dishonest and lack transparency
 - aim to dupe researchers, especially those inexperienced in scholarly communication
 - set up websites that closely resemble those of legitimate online publishers, and publish journals of questionable and downright low quality
 - some predatory publishers spam researchers, soliciting manuscripts but failing to mention the required author fee. Later, after the paper is accepted and published, the authors are invoiced for the fees



Beware of Predatory Publishers



BEALL'S LIST OF PREDATORY JOURNALS AND PUBLISHERS

PÜBLISHERS

STANDALONE JOURNALS

CONTACT

OTHER ?(

American Association for Science and Technology (AASCIT)

- American Journal
- American Research Institute for Policy Development
- American Research Journals



Sam Kagawa May 5, 2016 at 8:08 am

AASCIT are complete spammers beware. Recently i sent an article to the American journal of science and technology. After what appears to be a bogus review they replied they have accepted my article. they asked me to pay article processing charges. The bank transfer address is Honkong while the journal is American! I transferr d USD 200. After ackinolweding the recipt of the money they refused to publish my article. I pleaded with them but since then they refused to reply. The address aascit002@gmail.com, there is no person full name, no address, no contact. Only gmail address. These are complete spammers. Do not ever send your journal to AASCIT. I have all the evidence of the communication i had with them. If needs be i can give you the details.

Beall's List of Predatory Journals and Publishers

https://beallslist.weebly.com/

- this is a list of questionable, scholarly open-access publishers
- according to Spears (2017), "Since 2012, this list has been world's main source of information on journals that publish conspiracy theories and incompetent research, making them appear real."
- developed by Jeffrey Beall, a librarian from the University of Colorado
- he had taken down his blog because of pressure from the University of Colorado, which threatened his job security (Beall, 2017)

BEALL'S LIST OF PREDATORY JOURNALS AND PUBLISHERS

PUBLISHERS

STANDALONE JOURNALS

CONTACT

OTHER

Search for publishers (name or URL)

Potential predatory scholarly open-access publishers

Instructions: first, find the journal's publisher – it is usually written at the bottom of journal's webpage or in the "About" section. Then simply enter the publisher's name or its URL in the search box above. If the journal does not have a publisher use the Standalone Journals list.

Original list

GO TO UPDATE

This is an archived version of the Beall's list - a list of potential predatory publishers created by a librarian leffrey Beall. We will only update links and add notes to this list.

- 1088 Fmail Press
- 2425 Publishers
- · The 5th Publisher
- ABC Journals

Useful pages

List of journals falsely claiming to be indexed by DOAI

DOAJ: Journals added and removed

Nonrecommended medical periodicals

Retraction Watch

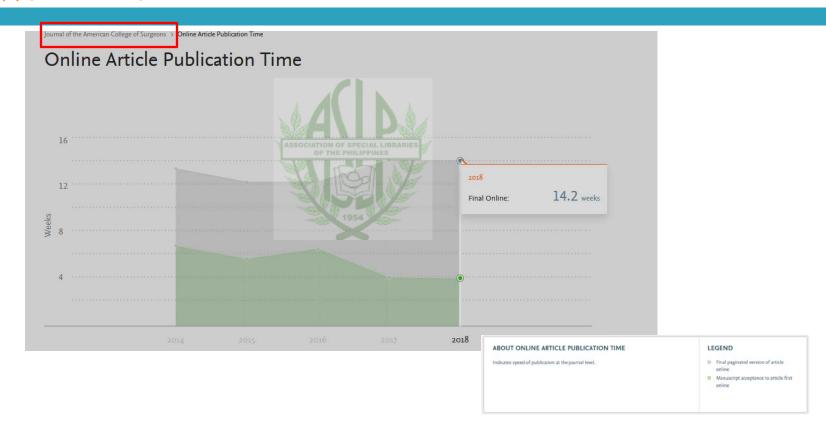
Flaky Academic Journals Blog

List of scholarly publishing stings

- Tips in selecting journals for your researchers (Abbot, 2017):
 - consider its audience
 - consider its reputation
 - consider its timeliness in accepting papers for publication
 - the acceptance and rejection rates of journals are a strong indicator of status and quality standards
 - a low acceptance rate (that is, a high rejection rate) indicates a highly selective journal that selects articles carefully on the basis of fit to its aims, scope, and audience, as well as on quality, rigor, novelty, and likely impact
 - a high acceptance rate sends a very strong negative quality signal, best avoided
 - acceptance rates are often reported by the journal on the author information pages of its website.

Elsevier Journal Insights

https://journalinsights.elsevier.com



Disseminating

- Identify Open Access journals
 - open access (OA)- unrestricted online access to articles published in scholarly journals (Laakso et al., 2011)
 - Gold OA or Green OA?
 - Gold OA
 - publishers make the journal article freely available on the Internet
 - some publishers charge article processing charges (APCs)
 - Green OA
 - publishers allow researchers to deposit or self-archive publications (usually preprints and post prints) in institutional repositories
 - Hybrid OA
 - publishers offer a combination of subscription access and open access
 - rearchers may be approached by a hybrid publisher to pay a fee for open and immediate access

Journal's OA Policies

Gold OA

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- □ Green OA

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Journal's Archiving Policies

- Sherpa/Romeo http://sherpa.ac.uk/romeo/index.php
 - is an online resource that aggregates and analyses publisher open access policies from around the world and provides summaries of self-archiving permissions and conditions of rights given to authors on a journal-by-journal basis

RoMEO Colour	Archiving policy
<u>Green</u>	Can archive pre-print and post-print or publisher's version/PDF
Blue	Can archive post-print (ie final draft post-refereeing) or publisher's version/PDF
<u>Yellow</u>	Can archive pre-print (ie pre-refereeing)
White	Archiving not formally supported

Sherpa/Romeo



Search - Publisher copyright policies & self-archiving



Librarians' Role

5. Disseminating

- Manage Copyright
 - Copyright "is a form of intellectual property that grants the creator of an original creative work an exclusive legal right to determine whether and under what conditions this original work may be copied and used by others, usually for a limited term of years" (Wikipedia, 2019)
 - Creative Commons Licenses
 - copyright licenses that enable the free distribution of an otherwise copyrighted "work"
 - a CC license is used when an author wants to give other people the right to share, use, and build upon a work that he or she (that author) has created

Creative Commons Licenses

lcon ≑	Description +	Shortening ÷	Attribution Required	Allows Remix culture	Allows commercial use	Allows Free Cultural + Works	Meets the OKI 'Open \$ Definition'
PUBLIC	Freeing content globally without restrictions	CCO	No ASSOCIATION OF SPECIA	Yes	Yes	Yes	Yes
© ()	Attribution alone	BY	Yes	Yes	Yes	Yes	Yes
CC O O	Attribution + ShareAlike	BY-SA	Yes	Yes	Yes	Yes	Yes
© S S	Attribution + Noncommercial	BY-NC	Yes	Yes	No	No	No
BY NC SA	Attribution + Noncommercial + ShareAlike	BY-NC-SA	Yes	Yes	No	No	No
CC D D	Attribution + NoDerivatives	BY-ND	Yes	No	Yes	No	No
BY NC ND	Attribution + Noncommercial + NoDerivatives	BY-NC-ND	Yes	No	No	No	No

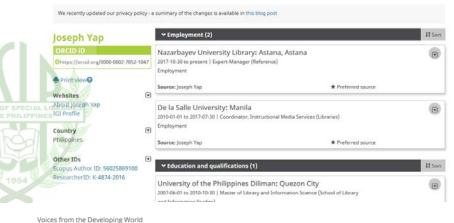
Librarians' Role

5. Disseminating

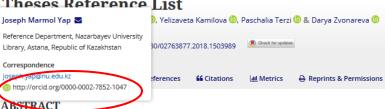
- Track Research Impact
 - Citation-Based Metrics
 - Crossref
 - Google Scholar
 - Scopus
 - Web of Science
 - Altmetrics
 - Journal Metrics

- Create Researcher Profiles
 - ORCID iD (Open Researcher and Contributor ID)
 - Researcher ID (Thomson Reuters)
 - Author ID (Scopus)
 - My Citations (Google Scholar)
 - ResearchGate
 - Academia

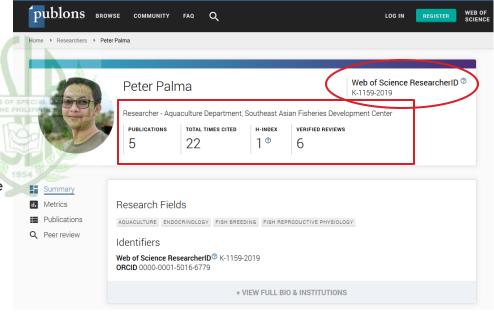
- Create Researcher Profiles
 - ORCiD
 - ORCID researcher profile, a researcher is assigned a Unique Author Identifier used to distinguish your work from other researchers with similar names
 - register here: https://orcid.org/register
 - Researcher ID (Thomson Reuters)
 - Author ID (Scopus)
 - My Citations (Google Scholar)



What Went Wrong? A Five-School Review of Master's Theses Reference List



- Create Researcher Profiles
 - ORCID
 - Researcher ID (Thomson Reuters)
 - a researcher profile and author identifier integrated into Thomson Reuters products (i.e. Web of Science; InCites; EndNote)
 - the ResearcherID author identifier makes it easy to calculate all kinds of citation-based metrics and demonstrate the impact your researcher's research is having on the world
 - register here: http://www.researcherid.com/#ridfor-researchers
 - Author ID (Scopus)
 - My Citations (Google Scholar)



- Create Researcher Profiles
 - ORCID
 - Researcher ID (Thomson Reurers)
 - Author ID (Scopus)
 - Scopus automatically assigns an ID to a researcher to bring the researcher's publications together
 - If the researcher has publications in Scopus, he/she will have a Scopus author profile/ID
 - My Citations (Google Scholar)

Create Researcher Profiles

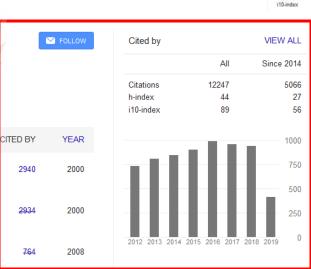
- ORCID
- Researcher ID (Thomson Reuters
- Author ID (Scopus)
- My Citations (Google Scholar)
 - a researcher profile tool integrated into Google Scholar
 - when a researcher creates an account, Google will automatically search for publications it believes written by the researcher and ask him/her to verify these citations as his/her own
 - citations can be added manually for any publications that Google may have missed.
 - as the researcher continues to publish, his/her My Citations profile will update automatically, always asking you to verify the citations it finds before adding them to your profile
 - to set up My Citations a Google Gmail account



Effect of aquaculture RL Naylor RJ Goldburg OF THE Nature 405 (6790): 1017

Effect of aquaculture

RL Naylor, RJ Goldburg, Nature 405 (6790), 1017



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Part II:

Realities and Challenges Faced by Research Librarians in Furthering these New Roles

Challenges Affecting Libraries and Librarians

Glusker & Exner, 2018

The Changing Library Environment

- Physical to Virtual

Unawareness

Researchers' lack of awareness of the library resources and services, and librarians' abilities

Data Services

- Raw or partiallyaggregated data

ASSOCIATION OF PECIAL LIBRARIES
OF THE PALLIPPINES

Management
Support
- FUNDING

Skills Development

- Instruction
- Digitization
- Metadata Creation
- Scholarly communications
 - Data management

Developing Collaborations

Librarians as bridge among multiple disciplines

Developing Present Roles

Nitecki & Davis, 2017

Assessment

Identifying Needs

Understanding Researchers' Work

Education

Skills Training

Advocacy and Raising
Awareness

Curation

Cataloging and Preserving

Designing
Infrastructures and
Implementation of
Digitization Projects

Environment Designer

Renovating Places and Spaces

Creating
Environments for
Lifelong Learners
and Citizen Scientists

Part III:

Library Services to Support Research among Stakeholders

Research Support Services

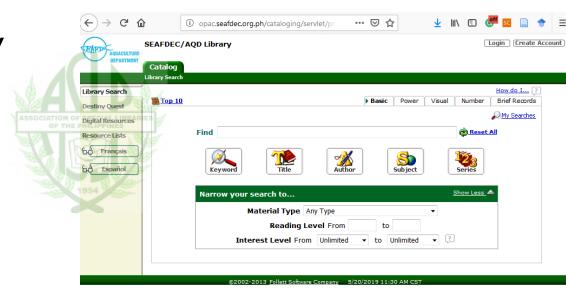
Fernandez-Marcial, Costa, & Gonzalez-Solar, 2016

- Research Support Link
- Selective Dissemination of Information (SDI)
- Advanced Reference Services
- Research Support Training
- Self-Training Guides
- Scientific Writing Support
- Repository Management
- Open Access Support
- Information Evaluation

- Intellectual Property Support
- Special Document Support
- Research Data Support
- Embedded Librarian
- Bibliographic/Content Management
- Research Metrics
- Social Network Profiles
- Researcher Identification
- Institutional Cooperation

The SEAFDEC/AQD Library Services

- Automated LibrarySystem
 - online
 - □ 24/7 service
 - integrated library services



Relevant book and periodical collection

need-based acquisition



Philippine Agricultural Scientist, Vol. 101, no. 4, 2018. ***

Plankton and Benthos Research, Vol. 13, no. 3, 2018. Table of Contents

RASTech, Winter, 2018.

Science, Vol. 360, no. 6395, 2018. Table of Contents ***

Science, Vol. 360, no. 6396, 2018. Table of Contexts ***

Sherkin Comment, Issue No. 65, 2018.

Transactions of the American Fisheries Society, Vol. 147, no. 5, 2018. Table of Contents ***

Journal Indexing Coverage:

- * Indexed in Current Contents ABES
- ** Indexed in Current Contents ABES, SCI-Expanded
- *** Indexed in Current Contents ABES, SCI-Expanded, SCI
- **** Indexed SCI-Expanded

- □ Proactive Reference Services
 - Current Awareness Services
 - Selective Information Dissemination
 - Document Request
 - Bibliographic Services

TOPIC ALERT

Dear All

• a bibliographic list fisheries- and aquaculture-

Below is a bibliographic list of our current journal articles and book chapters acquisition, classified according to SEAFDEC R&D thematic areas. Most of the pricles were taken from CG covered in mals and are all available for circulation. Link to publisher's abstract is provided in every article for your eladed publications.

book chapters, journal articles, magazine

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recently published fisheries- and aquaculture-

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at least two articles in a day prease reply to this email.

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Sustainability 2019, 11(9), 2522; https://doi.org/10.3390/su11092522

A Social-Ecological System Framework for Marine Aquaculture Research

Teresa R. Johnson ... et al.

Abstract:

Aquaculture has been responsible for an impressive growth in the global supply of seafood. As of 2016, more than half of all global seafood production comes from aquaculture. To meet future global seafood demands, there is need and opportunity to expand marine aquaculture production in ways that are both socially and ecologically sustainable. This requires integrating biophysical, social, and engineering sciences. Such interdisciplinary research is difficult due to the complexity and multi-

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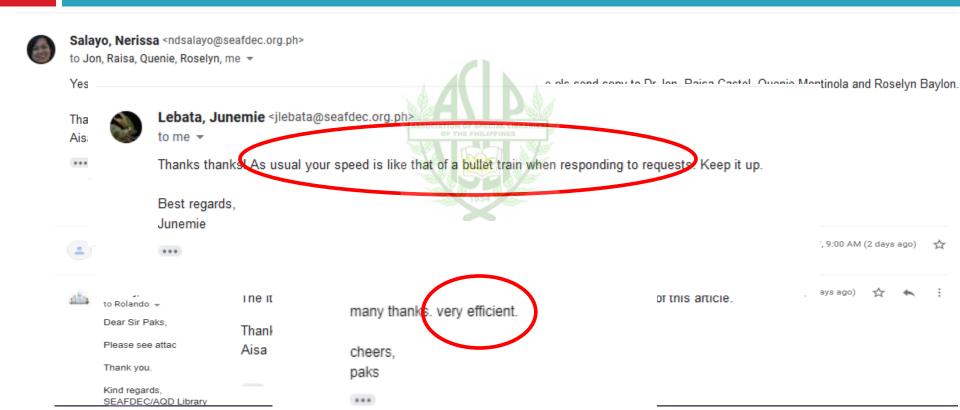
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