



Georgia Knowledge Repository

Jackie Radebaugh

GALILEO Visiting Program Officer

Pieces

- **Open Access**
- **Repositories**
- **Institutional
Repositories**
- **Georgia
Knowledge
Repository**



Open Access



What is Open Access?



- Publishing model in which literature is freely accessible online
- Open Access literature is free of charge and usually free of most licensing and copyright restrictions
- (From: Suber, P (2008). A very brief introduction to Open Access. Retrieved from http://lgdata.s3-website-us-east-1.amazonaws.com/docs/586/284878/OA_Intro.pdf).

Three Open Access Statements

- Declaration of the Budapest Open Access Initiative in 2002
- Bethesda Statement on Open Access Publishing
- Berlin Declaration on Open Access to Knowledge

Budapest Open Access Initiative

- *“By ‘open access’ to this literature, we mean its free availability on the public internet, permitting any users to read, download, copy, distribute, print, search or link to the full texts of these articles, crawl them for indexing, pass them as data to software, or use them for any other lawful purpose, without financial, legal, or technical barriers other than those inseparable from gaining access to the internet itself. The only constraint on reproduction and distribution, and the only role for copyright in this domain, should be to give authors control over the integrity of their work and the right to be properly acknowledged and cited.”*

Why Open Access is Important



- Improves the visibility of scholarship
- Increases the dissemination of research
- Increases the rate of citations
- Decreases “access barriers” to information
- Suber, P. (2012). Open access. Cambridge: MIT Press, 4.

Repositories





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10 Apr 2014: Introducing q-fin EC and q-fin MF

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The Georgia Knowledge Repository (GKR) is a central metadata repository containing records from partner institutions in the University System of Georgia which can be freely searched by the citizens of Georgia and the scholarly community at large.

What are Institutional Repositories?



- Digital Archive of scholarly creativity



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Georgia Knowledge Repository

Athenæum@UGA

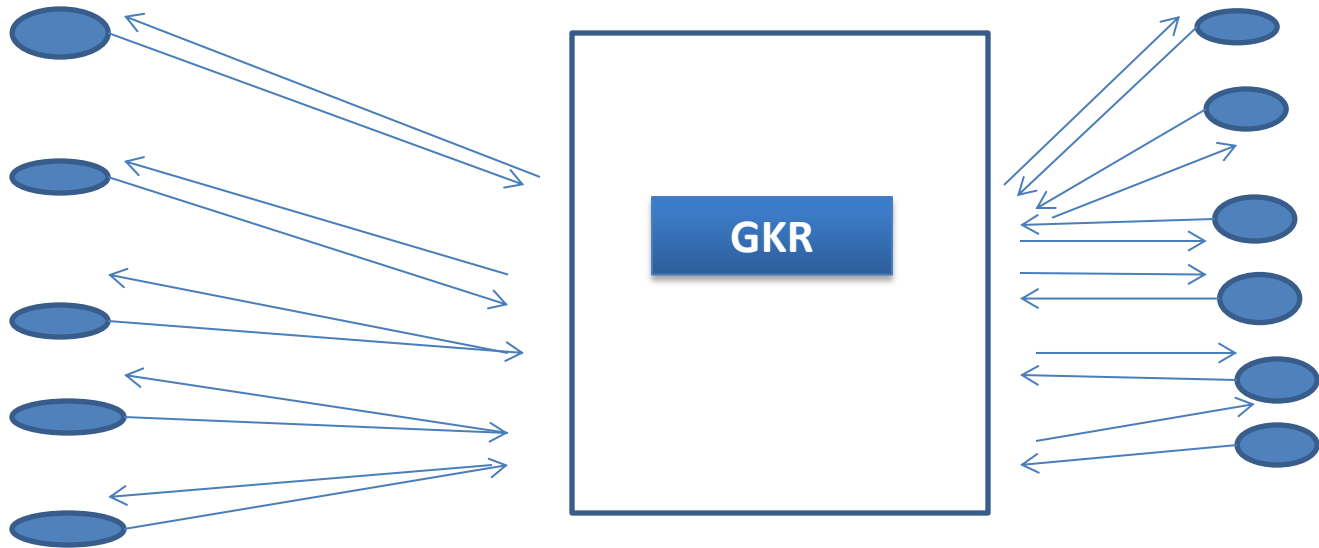




Georgia Knowledge Repository

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Open Archives Initiative Protocol for Metadata Harvesting

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Open Archives Initiative -> PMH

Interoperability through Metadata Exchange

The Open Archives Initiative Protocol for Metadata Harvesting (OAI-PMH) is a low-barrier mechanism for repository interoperability. *Data Providers* are repositories that expose structured metadata via OAI-PMH. *Service Providers* then make OAI-PMH service requests to harvest that metadata. OAI-PMH is a set of six verbs or services that are invoked within HTTP.

Join the OAI-PMH Community

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- [Register as a data provider](#)
- [Register as a service provider](#)
- See registered [data providers](#) and [service providers](#)

Contact us

- openarchives-l@cornell.edu

OAI-PMH Core Resources

- [OAI-PMH Version 2.0 Specification](#)
Describes the six OAI-PMH verbs, the XML schema for responses to verbs, and the underlying data model
- [Implementation Guidelines](#)
A supplement to the OAI-PMH Version 2.0 Specification that includes guidelines for implementers and guidelines for specific application domains.
- [Static Repository Specification](#)
Provides a simple approach for exposing relatively stable and small collections of metadata records through the OAI-PMH.
- [OAI-PMH for Beginners](#)
A guide to getting started with OAI-PMH.
- [OAI-PMH Tools](#)
Software and tools for data providers and service providers.

1. OAI for Beginners: Overview

Contents of this part of *OAI for Beginners*, the *Open Archives Forum online tutorial*



- [How to use this tutorial](#)
- [Basic OAI concepts and features](#)
- [Seven key definitions](#)
- [Sources of further information](#)
- [Quick Quiz Questions](#)

How to use this tutorial

This tutorial is intended for those who are interested in more technical aspects of the OAI-PMH, although the **Overview** and the **History and Development of OAI-PMH**, together with the **Glossary**, are suitable for those who simply require some general background information. Each part builds on the material in the earlier parts, so a good approach is to work through the parts in order, referring to the glossary as required. In addition to the Glossary, you will find key terms defined within each part of the tutorial. Sets of quick quiz questions for the introductory sections help you to check whether you've picked up key points along the way.

Overview (this part) introduces the basic concepts underlying the OAI and the OAI-PMH. Use this part to gain an understanding of what the OAI-PMH is, and what it does and does not provide. **History and Development of OAI-PMH** covers the emergence of the Open Archives Initiative, showing how it grew from roots in several earlier initiatives, and discussing the nature of the problems for which it aims to provide solutions. This part also surveys the development of the protocol (including the evolving nature, aims and technical components) from the Santa Fe Convention, through OAI-PMH v.1.0/1.1, to OAI-PMH v.2.0.

The rest of the tutorial contains more technical material. **The Main Technical Ideas of OAI-PMH** introduces and explains in some detail the key technical elements of the protocol. **Implementing OAI-PMH** outlines implementation issues for Data Providers and Service Providers; it explains how to implement OAI-PMH as a Data Provider and as a Service Provider, including both the necessary steps for a local implementation and several examples of freely available and adaptable tools for implementations. **XML Schemas and Record Formats** provides an overview of the implementation of a Data Provider metadata set, including coverage of XML schema and how to support multiple record formats.

Basic OAI concepts and features

--- Open Archives Initiative (OAI) ---

The essence of the open archives approach is to enable access to Web-accessible material through interoperable repositories for metadata sharing, publishing and archiving. It arose out of the e-print community, where a growing need for a low-barrier interoperability solution to access fairly heterogeneous repositories lead to the establishment of the Open Archives Initiative (OAI). The OAI develops and promotes a low-barrier interoperability framework and associated standards, originally to enhance access to e-print archives, but now taking account access to other digital materials. As it says in the OAI mission statement "The Open Archives Initiative develops and promotes interoperability standards that aim to facilitate the efficient dissemination of content."

Many communities are beginning to or potentially could benefit from the open archives approach. The Internet and the growing mass of material in digital format have broadened the potential clientele of many repositories of information. Material can be accessed more widely and also exploited for purposes different from those that originally motivated the creation of the repositories. Moreover, the possibility of accessing multiple repositories enables the construction of new kinds of services that can better serve the needs of the users. An additional incentive is the potential for cost-saving inherent in new models of the scholarly communication process that could be supported with this approach.

As an organisation, the OAI has included an Executive for management and Steering and Technical Committees for policy direction and evaluation of protocol developments. The Digital Library Federation (DLF), the Coalition for Networked Information (CNI), and the National Science Foundation (NSF) have funded the OAI. While the Executive and the funders are USA-based, the success of the OAI is firmly grounded in the participation of a community of people from around the world, particularly Europe as well as North America. Now that there is a well-developed and stable second version of the protocol, the OAI is in the hands of a very small number of people who can take independent and speedy decisions may be less important when weighed against the perception of stability and authority conferred by control through a standards body such as ISO, and this possibility is discussed within the OAI.

--- OAI Protocol for Metadata Harvesting (OAI-PMH) ---

The OAI-Protocol for Metadata Harvesting (OAI-PMH) defines a mechanism for harvesting records containing metadata from repositories. The OAI-PMH gives a simple technical option for data providers to make their metadata available to services, based on the open standards of HTTP (Hypertext Transport Protocol) and XML (Extensible Markup Language). The metadata that is harvested may be in any format that is agreed by a community (or by any discrete set of data and service providers), although unqualified Dublin Core is specified to provide a basic level of interoperability. Thus, metadata from many sources can be gathered together in one database, and services can be provided based on this centrally harvested, or "aggregated" data. The link between this metadata and the related content is not defined by the protocol. It is important to realise that OAI-PMH does not provide a search across this data, it simply makes it possible to bring the data together in one place. In order to provide services, the harvesting approach must be combined with other mechanisms.

Much promise is seen for the use of the protocol within an open archives approach. Support for a new pattern for scholarly communication is the most publicised potential benefit. Perhaps most readily achievable are the goals of surfacing 'hidden resources' and low cost interoperability. Although the OAI-PMH is technically very simple, building coherent services that meet user requirements remains complex. The OAI-PMH protocol could become part of the infrastructure of the Web, as taken-for-granted as the HTTP protocol now is, if a combination of its relative simplicity and proven success by early implementers in a service context leads to widespread uptake by research organisations, publishers, and "memory organisations".



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implementing the intelligent mail barcode

Go

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- CSU ePress - Columbus State University
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- EagleSCHOLAR - Georgia Southern University
- GeneralSpace - Georgia Gwinnett College
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- Scholarly Commons - Georgia Regents University
- ScholarWorks - Georgia State University
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- Vtext - Valdosta State University



Detailed Record

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Implementing the Intelligent Mail Barcode in the N-Tiered Service Library of a Print Mail Enterprise

Authors: [Bunch, Christopher E.](#)

Contributors: TSYS School of Computer Science

Publisher: Columbus State University

Publication Year: 2010

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Document Type: Thesis

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Access URL: <http://ldsp01.columbusstate.edu:8080/xmlui/handle/11075/149>

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implementinginte00buncCSU.pdf	3.640Mb	PDF	View/Open

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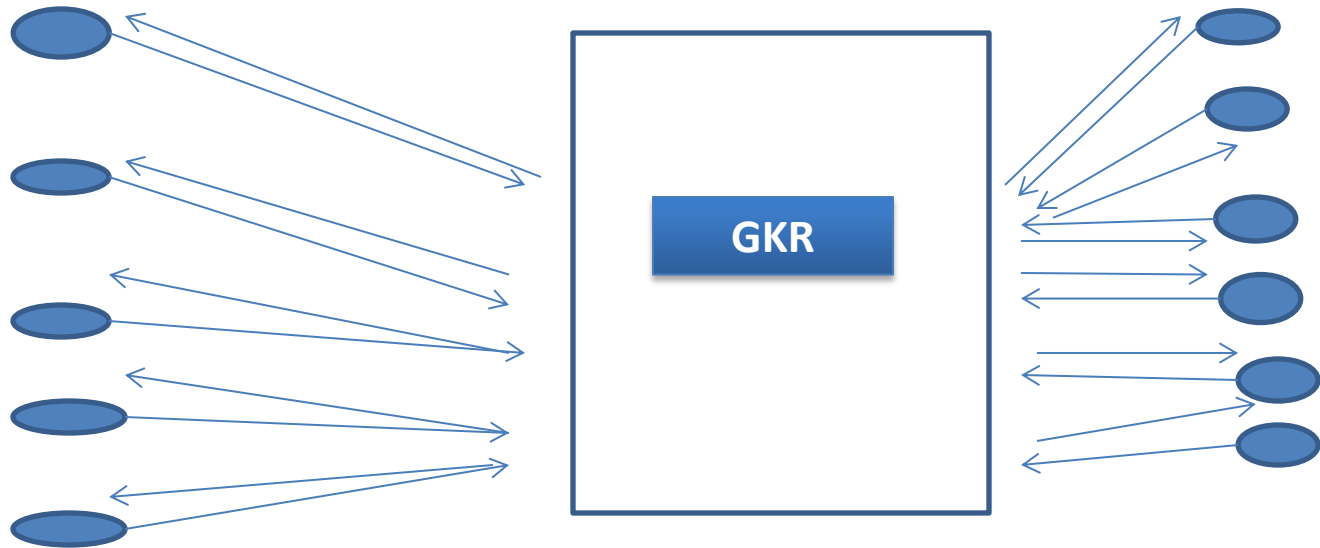
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— Sara Zimmerman, Executive Director,
LOUIS: The Louisiana Library Network

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Digital Archives



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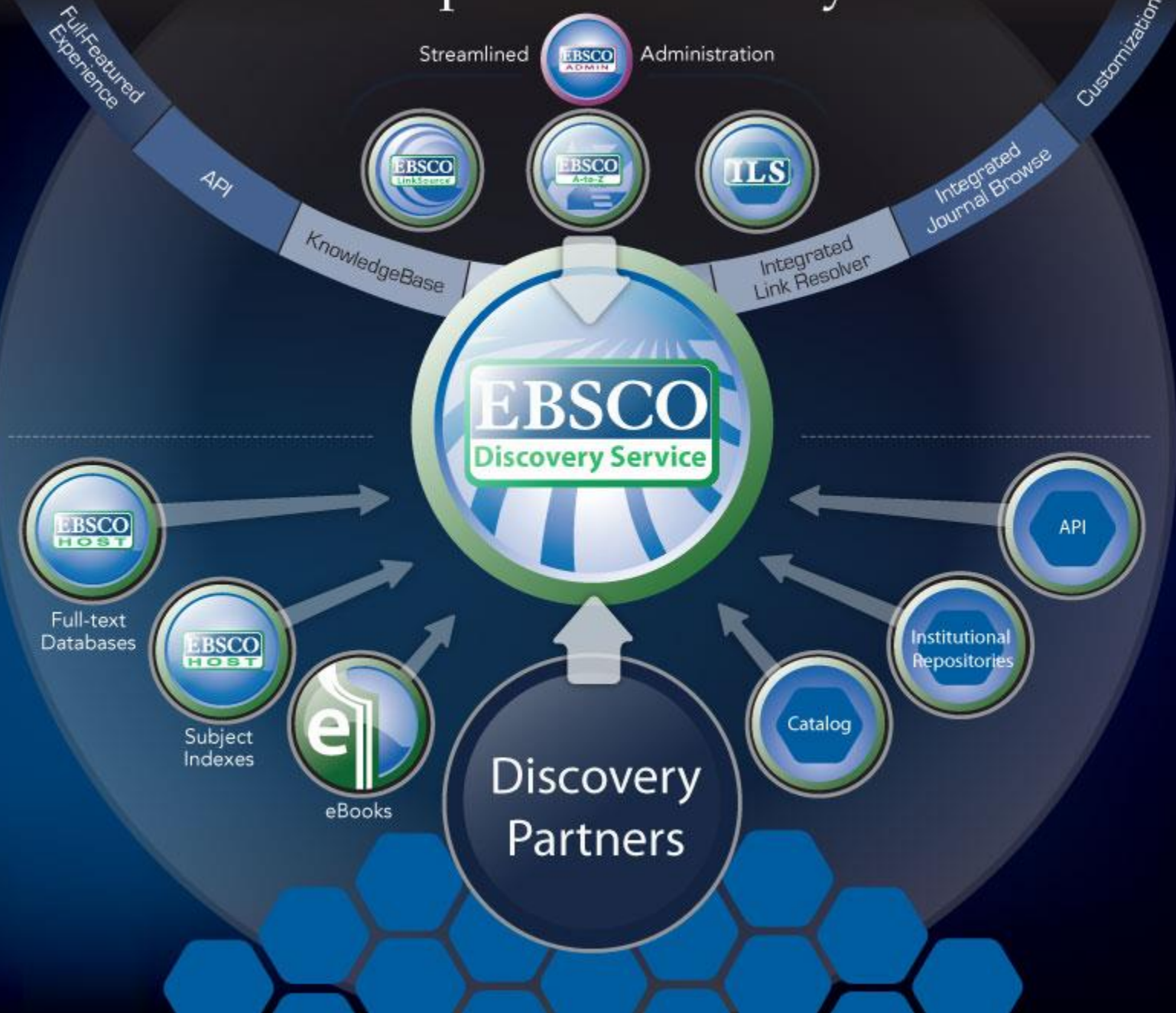


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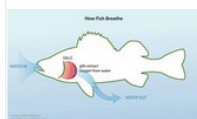
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Salem Press Encyclopedia of Science, 2013

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1. [Fish : an enthusiast's guide / Peter B. Moyle ; illustrations by Chris Mari Van Dyck.](#)



Book

By: Moyle, Peter B.. Berkeley : University of California Press, c1993. 01/01/1993 xi, 272 p., [8] p. of plates (some col.) : ill. ; 24 cm. Language: English, Database: Columbus State University GIL Catalog

Subjects: [Fishes](#)

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2. [Fish / by the editors of Time-Life Books.](#)



Book

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Subjects: [Cooking \(Fish\)](#)

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3. [Exploring the Possibilities of Marketing Value-Added Fish and Fish Products in Assam.](#)





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Electronic
Resource

Fish, Sticks, Birds and Bricks

By: Gang, Jeanne, Georgia Institute of Technology; Language: English

Runtime: 75:38 minutes

Subjects: Architecture and Related Services; Architecture; Design

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Page: 1



Fish, Sticks, Birds and Bricks

Authors: [Gang, Jeanne](#)

Contributors: Georgia Institute of Technology. School of Architecture
Studio Gang Architects

Publisher: Georgia Institute of Technology

Publication Year: 2011

Collection: [Georgia Institute of Technology](#)
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Description: Runtime: 75:38 minutes

Visionary architect Jeanne Gang is the founder and principal of Studio Gang Architects, a rising international practice based in Chicago whose work confronts pressing contemporary issues. Driven by curiosity, intelligence, and radical creativity, Jeanne has produced some of today's most innovative and award-winning architecture. The transformative potential of her work is exemplified by such recent projects as the Aqua Tower (named the 2009 Emporis Skyscraper of the Year), Northerly Island framework plan, Nature Boardwalk at Lincoln Park Zoo, and Columbia College Chicago's Media Production Center. Jeanne seeks to answer questions that lie locally (site, culture, people) and resound globally (density, climate, sustainability) through her architecture. She roots her designs in compelling ideas rather than repetitive formal principles, and often arrives at design solutions through cross-field investigations in materials, technology, and the natural and social sciences. Published and exhibited widely, Jeanne also continues to teach at a variety of institutions. Since 1999 she has served as an adjunct faculty member at the Illinois Institute of Technology. As her rapidly growing practice approaches its fourteenth year, Jeanne continues to pursue creating architecture that (as New Yorker critic Paul Goldberger described Aqua) "reclaims the notion that thrilling and beautiful form can emerge out of the realm of the practical."

Presented on November 1, 2011 from 6:00 pm-7:30 pm in the Reinsch-Pierce Family Auditorium on the Georgia Tech campus.

Document Type: Lecture; Video

File Description: 75:38 minutes

Language: English

Relation: School of Architecture Lecture Series

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Visionary architect Jeanne Gang is the founder and principal of Studio Gang Architects, a rising international practice based in Chicago whose work confronts pressing contemporary issues. Driven by curiosity, intelligence, and radical creativity, Jeanne has produced some of today's most innovative and award-winning architecture. The transformative potential of her work is exemplified by such recent projects as the Aqua Tower (named the 2009 Emporis Skyscraper of the Year), Northerly Island framework plan, Nature Boardwalk at Lincoln Park Zoo, and Columbia College Chicago's Media Production Center. Jeanne seeks to answer questions that lie locally (site, culture, people) and resound globally (density, climate, sustainability) through her architecture. She roots her designs in compelling ideas rather than repetitive formal principles, and often arrives at design solutions through cross-field investigations in materials, technology, and the natural and social sciences. Published and exhibited widely, Jeanne also continues to teach at a variety of institutions. Since 1999 she has served as an adjunct faculty member at the Illinois Institute of Technology. As her rapidly growing practice approaches its fourteenth year, Jeanne continues to pursue creating architecture that (as New Yorker critic Paul Goldberger described Aqua) "reclaims the notion that thrilling and beautiful form can emerge out of the realm of the practical."

Runtime: 75:38 minutes

Type: Lecture
Video

URI: <http://hdl.handle.net/1853/42002>

Date: 2011-11-01

Contributor: [Georgia Institute of Technology. School of Architecture](#)
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Relation: School of Architecture Lecture Series

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Subject: [Architecture](#)
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Dissertation/
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1. A fish tale

By: Givens, Carrie Elizabeth, uga; Language: English

This dissertation addresses four aspects of the biology of the **fish** gut. 1) What bacteria constitute the **fish** gut microbiome, how variable is the composition within a species; ho

Subjects: Electronic Theses and Dissertations; University of Georgia Theses and Dissertations; **Fish** gut; Gut microbiome; 16S rRNA; Gut microflora; 454-pyrosequencing; Sh
core gut microbiome; Proteobacteria; Firmicutes; Tenericutes; Vibrio sp; Vibrio parahaemolyticus; Vibrio vulnificus; Trinetes maculatus; Bairdiella chrysoura; Lagodon rhomb
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2. An Assessment of the Anthropogenic Affect of Bridges on Fish and Macroinvertebrate Assemblages

By: Wright, Charles Wilson, 08/13/2013 Language: English

Anthropogenic impacts such as bridge sites can greatly alter established streambed morphology and associated ecology. At bridge sites, streams are often channelized appro

Subjects: Valdosta State University Theses and Dissertations; Electronic Theses and Dissertations; United States -- Georgia -- Suwannee River Basin; Aquatic ecosystems; E
Georgia, South; Anthropogenic; Bridges; **Fish**; Macroinvertebrate; Assemblages; **Fishes**; United States -- Georgia -- Rivers and Streams



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3. An Assessment of the Anthropogenic Affect of Bridges on Fish and Macroinvertebrate Assemblages

By: Wright, Charles Wilson, 12/14/2013 Language: English

Anthropogenic impacts such as bridge sites can greatly alter established streambed morphology and associated ecology. At bridge sites, streams are often channelized appro

Subjects: Valdosta State University Theses and Dissertations; Electronic Theses and Dissertations; Anthropogenic; Bridges; Macroinvertebrate; Assemblages; **Fishes**; Freshw



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4. Abundance and diversity of sub-adult fishes in impounded South Carolina marshes

By: Carswell, Benjamin Lane, uga; Language: English

In coastal South Carolina, most impounded marshes are managed for waterfowl; fewer are managed for **fishes**. Tidal control is central to each strategy but raises concerns tha

Subjects: Electronic Theses and Dissertations; University of Georgia Theses and Dissertations; Impoundment; Marsh; Estuary; Fragmentation; Diversity; Hierarchical linear m

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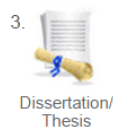
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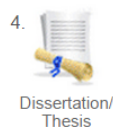
The evolution of cleaning mutualism and predator cooperation in a radiation of Caribbean fishes

By: Lettieri, Liliana B., Georgia Institute of Technology;

The steps by which neutral, random and/or negative biological interactions evolve into mutualistic ones remain poorly understood. Here, we study Elacatinus gobies and the **fishes** from which the

Subjects: Electronic Theses and Dissertations; Georgia Institute of Technology Theses and Dissertations; **Biology**; Biological Sciences; Defense; Signal; Adaptation; Mutualism; Evolution; Mutu
(**Biology**); Symbiosis; Biodiversity

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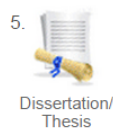
Genetic variation in fast-evolving East African cichlid fishes: an evolutionary perspective

By: Loh, Yong-Hwee Eddie, Georgia Institute of Technology;

Cichlid **fishes** from the East African Rift lakes Victoria, Tanganyika and Malawi represent a preeminent example of replicated and rapid evolutionary radiation. In this single natural system, numer

Subjects: **Biology**; Electronic Theses and Dissertations; Georgia Institute of Technology Theses and Dissertations; Biological Sciences; Astatotilapia; Genetic differentiation; Ancestral polymor
Evolution (**Biology**); Genetic polymorphisms; Genetics Research; Genetics

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A Simultaneous Genetic Screen for Zygotic and Sterile Mutants in a Hermaphroditic Vertebrate

By: Sucar, Sofia, 01/07/2013 Language: English

The mangrove killifish (Kryptolebias marmoratus) is unique among vertebrates due to its self-fertilizing mode of reproduction involving an ovotestis, analogous to the nematode Caenorhabditis ele

Subjects: Valdosta State University Theses and Dissertations; Electronic Theses and Dissertations; Mangrove Killifish; Zygotic Mutants; **Fish**; **Biology**; Genetic Screen; Maternal Effect; Hermap
Vertebrate; Kryptolebia marmoratus

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Thesis

1. Measuring present-day strain rates along the Fish Lake Valley fault system, Pacific-North America plate boundary

By: Johnson, Christopher William, Georgia Institute of Technology;

The eastern California shear zone (ECSZ) is located east of the San Andreas fault and contains a complex network of structures that accommodate ~25% of the relative displacement.

Subjects: Environmental Sciences. Ecology; Electronic Theses and Dissertations; Georgia Institute of Technology Theses and Dissertations; Biological Sciences; **Education**; Strain rates

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2. The origin of eye size differences in cichlid fish ecotypes

By: Michaels, Mary E., Georgia Institute of Technology; Language: English

The evolutionary mechanisms that act upon brain and eye development are not well known. Here, we investigate the causes of the adult eye size difference of the two cichlid species.

Subjects: Biology; Electronic Theses and Dissertations; Georgia Institute of Technology Theses and Dissertations; Biological Sciences; **Education**; Cichlids; Eye development

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3. Escape Behavior in Temora longicornis when exposed to Karenia brevis and Alexandrium fundyense

By: Angra, Aakanksha, Georgia Institute of Technology; Language: English

Recent studies have shown that copepods exhibit complex behaviors. Copepods are ocean-dwelling crustaceans that form the base of the marine food web. With the increase in algal blooms, copepods are exposed to harmful algal blooms.

Subjects: **Education**; Electronic Theses and Dissertations; Georgia Institute of Technology Theses and Dissertations; Biology; Biological Sciences; Schlieren; Alexandrium fundyense; algal blooms; Escape behavior; Temora longicornis; Speed; Detection distance

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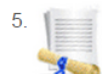
4. Defining tooth and taste bud density throughout development

By: Phillips, Kristine, Georgia Institute of Technology; Language: English

Epithelial-mesenchymal interactions are the foundation for building differing oral tissues. While the epithelium has the ability to develop into multiple tissue types, the mesenchyme is responsible for the development of the underlying structures.

Subjects: Biology; Electronic Theses and Dissertations; Georgia Institute of Technology Theses and Dissertations; Biological Sciences; **Education**; Cichlid; Teeth; LDN; LiCl

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5. Novel expression sites and genetic diversity of FoxP2 in Lake Malawi cichlids

By: Norsworthy, Michael, Georgia Institute of Technology; Language: English



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