

# The Open Archives Initiative

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# What is the OAI?

*"The OAI develops and promotes interoperability standards that aim to facilitate the efficient dissemination of content."* (from OAI mission statement)

- Technological framework
- Application independent
- Independent of economic model for content

Also ... a community and a "brand"

# A potted history of the OAI

October 1999 - Santa Fe meeting

February 2000 - Santa Fe Convention published

June 2000 - workshop at ACM DL 2000 (Texas)

August 2000 - OAI steering committee formed (DLF/CNI support)

September 2000 - technical meeting at Cornell University

November 2000 - alpha test group formed (~15 organizations)

January 2001 - OAI protocol 1.0 announced; Open Days in the US  
(Washington DC) and in Europe (Berlin)

July 2001 - OAI protocol 1.1 announced (XML schema change)

September 2001 - form technical committee; later alpha test group

June 2002 - OAI protocol 2.0 announced

# The Present

- A protocol: OAI-PMH v2.0, **stable** and widely adopted
  - 115 registered data providers (22Oct2002)
  - 12 registered service providers (22Oct2002)
- Now considered “infrastructure” in various projects (NSDL,...) and programs (JTISC FAIR, Mellon Foundation grants 2001)
- Meetings and workshops (sessions at DL conferences, 2nd CERN workshop Oct2002, 2nd OAF workshop Dec2002)

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

- Simple - low barrier interoperability - neither technically complicated nor resource intensive
- Harvesting model:
  - data providers/repositories export metadata
  - service providers harvest metadata
- Built on widely adopted standards (HTTP, XML, Dublin Core)
- Support for multiple metadata formats: Dublin Core + community specific

# Resource - Item - Record



resource



*item has  
identifier*

all available metadata  
about this sculpture

item

Dublin Core  
metadata

MARC21  
metadata

branding  
metadata

records

*record has identifier + metadata format + timestamp*

# Multiple metadata formats

## Interoperability

- Dublin Core metadata must be exposed for all items.

## Flexibility

- Community specific metadata sets
- Provenance metadata
- OAI-wide resource
  - Rights metadata
  - Citation metadata
- discovery

# Services built on OAI

- Aggregators and proxies
- General search: Arc, OAIster, my.OAI
- Community specific: OLAC (15 major languages collections), TORII (physics, cs)
- OAI+Web+Commercial: Elsevier's Scirus  
harvests from arXiv and other e-print archives





# OLAC: Open Language Archives Community

OPEN LANGUAGE ARCHIVES

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QUERY OLAC ARCHIVES:   
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## OLAC Mission

OLAC, the Open Language Archives Community, is an international partnership of institutions and individuals who are creating a worldwide virtual library of language resources by: (i) developing consensus on best current practice for the digital archiving of language resources, and (ii) developing a network of interoperating repositories and services for housing and accessing such resources.

## News

**OLAC in *Scientific American*:** An article on endangered languages in the August 2002 issue of *Scientific American* includes a discussion of OLAC. [More...](#)

**OLAC Working Group on Linguistic Types: Call for Participation:** This working group will create the OLAC vocabulary for linguistic types. [More...](#)

**OLAC Working Group on Language Codes: Call for Participation:** This working group will create OLAC standards concerning language

## Core Documents

- [FAQ](#)
- [Overview](#)
- [Becoming an OLAC](#)
- [Data Provider](#)
- [Metadata Set](#)
- [OLAC Process](#)
- [OLAC Protocol](#)

## Mailing List

OLAC-General is a low-volume, moderated list for OLAC announcements ([LIST ARCHIVES](#)).

NAME:

EMAIL:

Subscribe to OLAC-General

## Contact

The OLAC coordinators may be contacted via email at [olac-admin@language-archives.org](mailto:olac-admin@language-archives.org)

## LINGUIST List Links

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## Search for...

... Archive Resources

... A language

## Join OLAC

OLAC Home Page

Join an OLAC List

Become an OLAC archive

Become an individual data provider

## About OLAC

Participating Archives

Prospective Participants

OLAC Processes

OLAC Metadata Set

OLAC Protocol

## Open Language Archives Community: LINGUIST List Gateway

### Advanced Search for Linguistic Resources

Search for  in

Archive:

Additional Options You must choose at least one of these

Title:

Creator:

Subject Language:

Arabic, Standard  
Chinese, Mandarin  
Danish  
Dutch  
English  
Finnish  
French  
German, Standard  
Greek  
Greek, Ancient

Click for additional languages:  
  
Languages will appear here

Type:

Annotation Tools  
corpus  
Corpus Analysis  
dataset  
Deep Generation  
Deep Syntactic Analysis  
Development Tools  
eval  
Evaluation of Parsers  
Facial Movement & Speech Synthesis

**Community  
specific  
fields**

# Example: arXiv and Scirus

- arXiv
  - Dublin Core metadata for all eprints available via OAI
- Scirus
  - harvests arXiv metadata
  - also has proprietary metadata, web crawl data
  - presents portal with services based on combined data

Basic Search

Advanced Search

author:pierre AND author:gennes

Search

Query entered "pierre gennes" as author

Show results that have

All of the words

Show results from

All journal sources  
All Web sources

Show

10  
results per page

Use Saved Settings | [Edit Settings](#) | [Search Tips](#)

Searched for all of the words: author:pierre and author:gennes.

Found: **21 total** | [3 journal results](#) | [18 Web results](#)  
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**Pierre-Gilles de Gennes**, *Journal of Colloid and Interface Science*, Jun 2000  
Two-level systems are known to be important for the low-temperature properties of glasses. We suggest here that they might explain some remarkable properties of powders under repeated tapping, as discovered by the Chicago group. Following the ideas of...

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**Pierre-Gilles de Gennes / Pierre-Gilles de Gennes**, Aug 2002  
...nbsp nbsp nbsp nbsp Materials Research Activities **Pierre-Gilles de Gennes** Interview conducted by Hervy Afà@ Arribart and Bernadette Bensaudé-Vincent. More De **Gennes** photos. Biographical sketch: P ierre-Gilles de **Gennes**... [http://hrst.mit.edu/hrs/materials/public/DeGennes/DeGennesintro\_fr1252.htm] [similar results](#)

- 3. [Pierre-Gilles de Gennes](#)

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**Pierre-Gilles de Gennes** Professor at the Collège de France [click here]

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- 6. [Pierre-Gilles de Gennes](#)  
**Pierre-Gilles de Gennes / Pierre-Gilles de Gennes**, Sep 2002  
Pierre-Gilles de Gennes Biography P. G. de Gennes was born in Paris, France, in 1932... 1991 Press Release Presentation Speech Illustrated Presentation **Pierre-Gilles de Gennes** Biography Nobel Lecture 1990 1992 The 1991 Prize in: Physics... [http://www.nobel.se/physics/laureates/1991/gennes-bio.html]  
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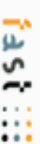
- 7. [Adhesion induced by mobile binders: dynamics.](#)  
**F Brochard-Wyart / Pierre-Gilles de Gennes, Proc Natl Acad Sci U S A**, Jun 2002  
We consider a vesicle bilayer loaded with molecules that can bind (upon contact) with a solid surface, following the classical model of Bell, Dembo, and Bongrand. We are interested in situations where the contact area varies with time: we assume that...  
**MEDLINE Citation on BiomedNet MEDLINE**  
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- 8. ["FLEXIBLE" NEMATIC POLYMERS: STIFFENING NEAR THE CLEARING POINT](#)  
**Gennes, Pierre-Gilles De, Mol Cryst Liq Cryst**, Jan 1984  
**Relevant terms/keywords:** isotropic;isotropic fluid;cooled;nematic;monomer;monomers  
**Beilstein Abstract on ChemWeb.com**  
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- 9. [Glass transitions of freely suspended polymer films](#)  
**de Gennes, Pierre-Gilles**, Sep 2000  
We present a modified version of our &quot;sliding model&quot;, where chain arcs, between two contacts at the surface, may move if all the barriers along the arc are weaker than a certain threshold. An important advance of the revised model is that the...  
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**arXiv submission from OAI harvested data**

- 10. [Two remarks on wetting and emulsions](#)  
**de Gennes, Pierre-Gilles**, Sep 2000  
This paper is extracted from an opening address given at the workshop &quot;Wetting: from microscopic origins to industrial applications&quot; (Glens, May 6-12, 2000). It discusses two special points a) the nature of line energies for a contact line...  
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**Pierre-Gilles de Gennes** – Biography. P. G. de **Gennes** was born in Paris, France, in 1932. He majored from the École Normale in 1955. ...  
[www.nobel.se/physics/laureates/1991/gennes-bio.html](#) - 18k - Oct 21, 2002 - [Cached](#) - [Similar pages](#)

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... of matter, in particular to liquid crystals and polymers". **Pierre-Gilles de Gennes**. France. Collège de France Paris, France. b.1932. ...  
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... Fizyka, Francia **Gennes Pierre Gilles** de (1932-), widok strony znajdź podobne pokaz powiązane. **Gennes Pierre Gilles** de (1932-), fizyk francuski. ...

Description: (encyklopedia.pl)

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# Summary

- Tangible results of OAI are the protocol, repositories exporting metadata, and services based on this metadata
- The OAI has helped promote the idea of metadata sharing and the use of Dublin Core
- The OAI provides a stable foundation and infrastructure, it is now time to build and to refocus on improving scholarly communication

# Additional resources

- OAI homepage: <http://www.openarchives.org/>
- Protocol: <http://www.openarchives.org/OAI/2.0/openarchivesprotocol.htm>
- Implementation guidelines: <http://www.openarchives.org/OAI/2.0/guidelines.htm>
- Recent CERN workshop: <http://doc.cern.ch/age?a02333>
- Forthcoming OAF workshop in Portugal: <http://www.oaforum.org/workshops/>
- OLAC: <http://www.language-archives.org/>
- Scirus: <http://www.scirus.com/>
- Arc: <http://arc.cs.odu.edu/>
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