Adding Patent Records to Clemson's IR--Highlighting the University's Output

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Available at: https://works.bepress.com/jan_comfort/25/
Increasing Access to Clemson University Patents

Jan Comfort | Andy Wesolek | Lisa Bodenheimer | Brenda Burk
Medium sized, public land grant institution
17,000 undergrads, 5,000 grads
5,000 faculty and staff.
80 undergraduate and 110 graduate programs
focused on STEM
Ranked 20th by U.S. News and World Report
(doctoral granting public universities)

The Libraries house over 1.5 million print volumes
163,000 eBooks, 45,000 ejournals
nearly 500 databases.
What is a patent?

A property right granted by the government of the United States to an inventor “to exclude others from making, using, offering for sale, or selling the invention throughout the United States or importing the invention into the United States for a limited time in exchange for public disclosure of the invention when the patent is granted.”

U.S. Constitution
Article 1, Section 8, Clause 8

“Congress shall have power...
To promote the progress of science and useful arts by securing for limited times to authors and inventors the exclusive right to their respective writings and discoveries.”
Where do you find patents?

http://patft.uspto.gov

http://google.com/patents

http://freepatentsonline.com
Lots of information is **ONLY** available in patents

80% found only in patents!*

How do patents fit into the research process?

The purpose of a journal article is to report original research. The purpose of a patent is to document a process or discovery for commercialization.
How does Clemson provide access to patents?

1. Summon
Nanoparticle

From Encyclopædia Britannica

Ultrafine unit with dimensions measured in nanometres (nm; billionths of a metre). Nanoparticles exist in the natural world and are also created as a result of human activities. Owing to their submicroscopic size, they have unique material characteristics, and manufactured nanoparticles may find practical applications in a variety of areas, including medicine, engineering, catalysis, and environmental remediation.

Read more

1. NANOPARTICLE
   by KANWAR, JAGAT RAKESH; KANWAR, RUPINDER, KAUR 
   11/2012
   Permalink

   The present invention relates to methods of producing nanoparticles. In particular, the invention relates to nanoparticles for delivery of an active agent including drugs and vaccines. La...

   Patent: Citation Online

2. NANOPARTICLE
   by AMI MAKIKO; NEMORI, RYOICHI; KOJIMA, MASAYOSHI 
   10/2007
   Permalink
How does Clemson provide access to patents?

2. LibGuides
Again, doesn’t exactly highlight Clemson patents...
Then one day it hit me. Why not add patents to TigerPrints – our IR? And then, why not also include them in the Library’s catalog?

And the project began.
Increase Visibility of Clemson’s Research
Increase the chance that Clemson patents will be discovered
Increase the chance that Clemson patents will be licensed.
Promote TigerPrints
How to get to TigerPrints
Articles and Research

Article Indexes and Databases

Multiple Subjects
- Academic Search Complete
- LexisNexis
- Academic OneFile
- Web of Science (citation indexes)
- Ingenta
- Google Scholar (with Clemson links)

All Databases
- Databases A-Z - see a list of all databases by name
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- Music
Selected Works of R. W. Blob

Faculty Member at Clemson University

I am broadly interested in the evolution of musculoskeletal function in animals. To understand how animals perform the tasks that allow them to survive, I test the functional consequences of variation in biological design through experimental studies of musculoskeletal biomechanics, primarily in vertebrate systems. To understand how function evolves, I take a comparative approach to these analyses, conducting studies in a phylogenetic context and frequently drawing on data from the fossil record as well as

Articles (18)

- Evolutionary Novelty versus Exaptation: Oral Kinematics in Feeding versus Climbing in ...  
  PLOS ONE (2013)  
  Richard W. Blob, Joshua Cullen, Takashi Maie and Heiko L Schoenfuss  
  Species exposed to extreme environments often exhibit distinctive traits that help meet the demands of such habitats. Such traits could ...

- Stairway to Heaven: Evaluating Levels of Biological Organization Correlated with ...  
  PLOS ONE (2013)  
  Selective pressures generated by locomotor challenges act at the level of the individual. However, phenotypic variation among individuals that might ...

- Forelimb kinematics during swimming in the pig-nosed turtle, Carettochelys insculpta ...  
  (2012)  
  Angela R.V. Rivera, Gabriel Rivera and Richard W. Blob  
  Animals that swim using appendages do so by way of rowing and/or flapping motions. Often considered discrete categories, rowing and ...

- Performance and scaling of a novel locomotor structure: adhesive capacity ...  
  Journal of Experimental Biology (2012)  
  Richard W. Blob, Takashi Maie and Heiko L. Schoenfuss  
  Many species of gobid fishes adhere to surfaces using a sucker formed from fusion of the pelvic fins. Juveniles of ...
Author Dashboard

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- Top Channels

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- All Goals

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- Organic Search: 57.1%
- Referral: 12.8%
- Direct: 26.3%
- (Other)
- Social
- Email

**Sessions**
...Of course, we have to have content for people to come see

• Patents!
  – No copyright complications
  – Already digital
  – Clemson faculty have produced a ton of them!*

*one ton = ~328 total patents.
How to most effectively add 328 records to TigerPrints?

Crosswalk this...
How to most effectively add 328 records to TigerPrints?

...to this
Oxygenated pitch and processing same

Ludovic P. Cornec
Charles C. Pain

Document Type
Patent

Publication Date
7-6-1993

Patent Number
patent number 5225070

Abstract
A method is provided which includes infusing oxygen into pitch material without stabilizing the oxygen-infused pitch material. In addition, the invention includes further processing steps (including heat stabilization in either an inert atmosphere or an oxygen-containing atmosphere, deformation, pyrolysis, and/or composite formation) performed after or in conjunction with the oxygenation process. Moreover, the invention includes the composition of matter (in any of a number of different physical forms such as powder, fiber, shaped article, composites) resulting from the practice of this oxygenation process, either alone or in conjunction with the further processing steps. The composition has a homogeneous distribution of oxygen and can be heat stabilized in an inert atmosphere.

Application Number
07/737446

Assignees
Clemson University (Clemson, SC)

Filing Date
1991-07-29

Primary Class
208/44

Other Class
208/6, 208/22
Copyright Vs. Contracts
Results

• Good source of content and “Google Juice” for the Repository

• Enhanced visibility of Clemson Scholarship

• Opportunity to recruit more content through congratulatory emails
From TigerPrints to the Catalog

Repurposing Electronic Patents
Metadata for the Catalog
Staff side view
How did we approach this?
Planning for the project

MARC and Millennium: with patents record in hand

– Chose MARC tags for metadata particular to patents, taking into account our Millennium MARC tables and indexing rules.

– Created a Millennium load profile, to add system-specific codes and MARC fields to the records.

– Testing in our development (test) database and in our test public catalog to see how searching worked.
Planning for the project, part 2:
Created documentation/training materials

On our StaffWeb:
Step 1, Harvested IR metadata using MarcEdit:

```
=042  \$adc
=100  \$aSun, Ya-Ping$author
=245  \$aFluorescent Carbon Nanoparticles
=260  \$c2015-01-13T08:00:00Z.
=620  \$aDisclosed are photoluminescent particles. The particles include a core nano-sized particle of carbon and a passivation agent bound to the surface of the nanoparticle. The passivation agent can be, for instance, a polymeric material. The passivation agent can also be derivatized for particular applications. For example, the photoluminescent carbon nanoparticles can be derivatized to recognize and bind to a target material, for instance a biologically active material, a pollutant, or a surface receptor on a tissue or cell surface, such as in a tagging or staining protocol.<$/p>
=690  \$aPatent Number 8932877
=655  \$aPatent$local
=856  \$uhttp://tigerprints.clemson.edu/clemson_patents/451$zConnect to this object online.
```
Step 2, Manipulated TigerPrints metadata with MARCEdit
Step 3, The final load into our local public catalog
Things to consider during implementation

• Local policies for including minimal level records in your catalog
• Your ILS and its capabilities for indexing, batch editing, and display
• How these records will go into your discovery tool
• This can be considered a work in progress
Unexpected benefits . . .
The result . . .
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bburk@clemson.edu

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http://tigerprints.clemson.edu/clemson_patents/