DECLARATION OF JUNE ANN MUNFORD

1. My name is June Ann Munford. I am over the age of 18, have personal knowledge of the facts set forth herein, and am competent to testify to the same.

2. I earned a Master of Library and Information Science (MLIS) from the University of Wisconsin-Milwaukee in 2009. I have over ten years of experience in the library/information science field. Beginning in 2004, I have served in various positions in the public library sector including Assistant Librarian, Youth Services Librarian and Library Director. I have attached my Curriculum Vitae as Appendix CV.

3. During my career in the library profession, I have been responsible for materials acquisition for multiple libraries. In that position, I have cataloged, purchased and processed incoming library works. That includes purchasing materials directly from vendors, recording publishing data from the material in question, creating detailed material records for library catalogs and physically preparing that material for circulation. In addition to my experience in acquisitions, I was also responsible for analyzing large collections of library materials, tailoring library records for optimal catalog search performance and creating lending agreements between libraries during my time as a Library Director.

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4. I am fully familiar with the catalog record creation process in the library sector. In preparing a material for public availability, a library catalog record describing that material would be created. These records are typically written in Machine Readable Catalog (herein referred to as "MARC") code and contain information such as a physical description of the material, metadata from the material's publisher, and date of library acquisition. In particular, the 008 field of the MARC record is reserved for denoting the date of creation of the library record itself. As this typically occurs during the process of preparing materials for public access, it is my experience that an item's MARC record indicates the date of an item's public availability.

5. Typically, in creating a MARC record, a librarian would gather various bits of metadata such as book title, publisher and subject headings among others and assign each value to a relevant numerical field. For example, a book's physical description is tracked in field 300 while title/attribution is tracked in field 245. The 008 field of the MARC record is reserved for denoting the creation of the library record itself. As this is the only date reflecting the inclusion of said materials within the library's collection, it is my experience that an item's 008 field accurately indicates the date of an item's public availability.

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6. I am familiar with the Internet Archive, a digital library formally certified by the State of California as a public library. Among other services that the Internet Archive makes available to the general public is the Wayback Machine, an online archive. The Internet Archive's Wayback Machine service archives webpages as of a certain capture date to track changes in the web over time. The Internet Archive has been in operation as a nonprofit library since 1996 and has hosted the Wayback Machine service since its inception in 2001. During my time as a librarian, I frequently used the Internet Archive's Wayback Machine for research and instruction purposes. This includes teaching instructional classes on using the Wayback Machine to library patrons and using the Wayback Machine to research reference inquiries that require hard-to-find online resources. I consider the Internet Archive's recordskeeping to be as rigorous and detailed as other formal library recordskeeping practices such as MARC records, OCLC records and Dublin Core.

7. I have reviewed Exhibit 1010, "An Innovation for Swimming Stroke Monitoring Tri-Axial Accelerometer and Gyroscope Data Logger for Stroke Analysis" by Ohgi, et al. as published in *Proceedings of the International Society of Biomechanics XIXth Congress: the Human Body in Motion.*

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8. Attached hereto as Appendix OHGI01 is a true and correct copy of the MARC record for *Proceedings of the International Society of Biomechanics XIXth Congress: the Human Body in Motion* as held by the University of Otago library. I secured this record myself from the library's public catalog. The MARC record contained within Appendix OHGI01 accurately describes the title, author, publisher, and ISBN number of *Proceedings of the International Society of Biomechanics XIXth Congress: the Human Body in Motion.* In comparing Exhibit 1010 to Appendix OHGI01, it is my determination that Exhibit 1010 is a true and correct copy of "An Innovation for Swimming Stroke Monitoring Tri-Axial Accelerometer and Gyroscope Data Logger for Stroke Analysis" by Ohgi, et al. as published in *Proceedings of the International Society of Biomechanics XIXth Congress: the Human Body in Motion*.

9. My determination that the MARC record contained within Appendix OHGI01 accurately describes *Proceedings of the International Society of Biomechanics XIXth Congress: the Human Body in Motion* is based upon the accuracy of several fields within this MARC record. The 245 field, describing the title and authorship of the work, matches the title and authors as represented in Exhibit 1010. The 260 field describing the publisher of the

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work is properly attributed to the University of Otago, as found in Exhibit 1010. The 300 field, describing the physical attributes of the work, matches the page number as represented in Exhibit 1010.

10. The 008 field of the MARC record in Appendix OHGI01 indicates the date of record creation. The 008 field of Appendix OHGI01 indicates the University of Otago library first acquired these proceedings as of July 22, 2003. Considering this information, it is my determination that *Proceedings of the International Society of Biomechanics XIXth Congress: the Human Body in Motion* and therefore "An Innovation for Swimming Stroke Monitoring Tri-Axial Accelerometer and Gyroscope Data Logger for Stroke Analysis" was made available to the public via this library shortly after its initial acquisition as of July 22, 2003.

11. Attached hereto as Appendix IA01 is a screen capture of Internet Archive Wayback Machine entries for the following five URLS: http://www.library.otago.ac.nz/cattut/about.html, http://www.library.otago.ac.nz/cattut/basic.html, http://www.library.otago.ac.nz/cattut/guided.html, http://www.library.otago.ac.nz/cattut/search_results.html and http://www.library.otago.ac.nz/cattut/item_records.html. I secured these

screen captures myself from https://web.archive.org/web/20030814134633/http://www.library.otago.ac.nz/cattut/about.html, https://web.archive.org/web/20030823004728/http://www.library.otago.ac.nz/cattut/guided.html, https://web.archive.org/web/20030823004544/http://www.library.otago.ac.nz/cattut/search_results.html, https://web.archive.org/web/20030823004544/http://www.library.otago.ac.nz/cattut/basic.html and https://web.archive.org/web/20030823005025/http://www.library.otago.ac.nz/cattut/item_records.html. These records were captured between August 14 - 23, 2003.

12. Appendix IA01 is an Internet Archive capture of a document entitled "Catalogues Tutorial" as hosted on the University of Otago website. This tutorial page is spread out between multiple URLs to form a single contiguous document. These web pages describe the search capacity of the University of Otago's library catalog when used by a member of the general public. Page 2 of Appendix IA contains the following passage: "This tutorial will guide you through the major features of the University of Otago Library's Catalogue. The catalogue lists items in the Library units on the

Dunedin, Wellington and Christchurch campuses of the University of Otago. It can be accessed from any computer connected to the internet at http://otago.conzulsys.ac.nz". Pages 2, 4 and 6 indicate that any user of the University of Otago's library catalog is capable of searching the library's collection by the following criteria: title, author, journal, subject, call number and keyword. These pages also provide visual examples of searches being performed. Page 8 indicates users are able to sort search results by relevance. Page 11 indicates that the library catalog serves as a practical inventory of the University of Otago library's collection.

13. Attached hereto as Appendix IA02 is a screen capture of the Internet Archive Wayback Machine entry for http://www.isb2003.otago.ac.nz/pdf/ISB-detailed-programme.pdf. I secured these screen captures myself from https://web.archive.org/web/20030814032046/http://www.isb2003.otago.ac.nz/pdf/ISB-detailed-programme.pdf. This record was captured as of August 14, 2003.

14. Appendix IA02 is an Internet Archive capture of a web page entitled "Scientific Program in Detail" as hosted on the ISB 2003 Conference web page. This page is a program describing the schedule of events at the ISB

2003 Conference. Page 10 of Appendix IA02 indicates Yuji Ohgi presented "An Innovation for Swimming Stroke Monitoring Tri-Axial Accelerometer and Gyroscope Data Logger for Stroke Analysis" to attendees of the ISB 2003 Conference on July 8, 2003 at 10:00am. As such, it is my determination that "An Innovation for Swimming Stroke Monitoring Tri-Axial Accelerometer and Gyroscope Data Logger for Stroke Analysis" was first made available to the public via this presentation as of July 8, 2003.

15. Attached hereto as Appendix IA03 is a screen capture of the Internet Archive Wayback Machine entry for http://www.isb2003.otago.ac.nz:80/papers.asp. I secured these screen captures myself from https://web.archive.org/web/20030602173241/http://www.isb2003.otago.ac.nz:80/papers.asp. This record was captured as of June 2, 2003.

16. Appendix IA03 is an Internet Archive capture of a web page entitled "Abstraction Submission" as hosted on the ISB 2003 Conference website. Page 2 of Appendix IA03 contains a passage which reads: “All long abstracts of accepted papers will be included on a CD of the Congress proceedings that will be available to delegates at the Congress.” This passage indicates these conference proceedings were available to be

acquired by attendees of the ISB 2003 Conference while the conference was taking place from July 6 – July 11, 2003. As such, it is my determination that "An Innovation for Swimming Stroke Monitoring Tri-Axial Accelerometer and Gyroscope Data Logger for Stroke Analysis" was first made available to the public via this CD-ROM at some time between July 6 – 11, 2003.

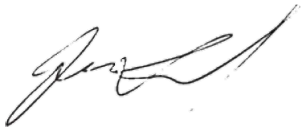
17. Appendices OHGI01, IA01, IA02 and IA03 each provide a data point regarding the public accessibility of "An Innovation for Swimming Stroke Monitoring Tri-Axial Accelerometer and Gyroscope Data Logger for Stroke Analysis" as published *Proceedings of the International Society of Biomechanics XIXth Congress: the Human Body in Motion*. Appendix OGHI01 indicates the University of Otago's library made these proceedings available soon after July 22, 2003 and Appendix IA01 indicates this library copy was included within a library catalog capable of complex search queries. Appendix IA02 indicates "An Innovation for Swimming Stroke Monitoring Tri-Axial Accelerometer and Gyroscope Data Logger for Stroke Analysis" was presented at the ISB 2003 Congress as of July 8, 2003. Appendix IA03 indicates "An Innovation for Swimming Stroke Monitoring Tri-Axial Accelerometer and Gyroscope Data Logger for Stroke Analysis" was distributed to ISB 2003 Congress attendees via CD-ROM as the

conference took place from July 6 – 11, 2003. As such, it is my determination that "An Innovation for Swimming Stroke Monitoring Tri-Axial Accelerometer and Gyroscope Data Logger for Stroke Analysis" was first made available to the public as of July 8, 2003 and certainly no later than July 22, 2003.

18. I have been retained on behalf of the Petitioner to provide assistance in the above-illustrated matter in establishing the authenticity and public availability of the documents discussed in this declaration. I am being compensated for my services in this matter at the rate of $200.00 per hour plus reasonable expenses. My statements are objective, and my compensation does not depend on the outcome of this matter.

19. I declare under penalty of perjury that the foregoing is true and correct. I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code.

Dated: 11/18/2024



June Ann Munford

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APPENDIX CV

June A. Munford
Curriculum Vitae

Education

University of Wisconsin-Milwaukee - MS, Library & Information Science, 2009
Milwaukee, WI

- Coursework included cataloging, metadata, data analysis, library systems, management strategies and collection development.
- Specialized in library advocacy, cataloging and public administration.

Grand Valley State University - BA, English Language & Literature, 2008
Allendale, MI

- Coursework included linguistics, documentation and literary analysis.
- Minor in political science with a focus in local-level economics and government.

Professional Experience

Researcher / Expert Witness, October 2017 – present
Freelance ● Pittsburgh, Pennsylvania & Grand Rapids, Michigan

- Material authentication and public accessibility determination. Declarations of authenticity and/or public accessibility provided upon research completion. Experienced with appeals and deposition process.

- Research provided on topics of public library operations, material publication history, digital database services and legacy web resources.

- Past clients include Alston & Bird, Arnold & Porter, Baker Botts, Fish & Richardson, Erise IP, Irell & Manella, O'Melveny & Myers, Perkins-Coie, Pillsbury Winthrop Shaw Pittman and Slayden Grubert Beard.

Library Director, February 2013 - March 2015
Dowagiac District Library ● Dowagiac, Michigan

- Executive administrator of the Dowagiac District Library. Located in

Southwest Michigan, this library has a service area of 13,000, an annual operating budget of over $400,000 and total assets of approximately $1,300,000.

● Developed careful budgeting guidelines to produce a 15% surplus during the 2013-2014 & 2014-2015 fiscal years while being audited.

● Using this budget surplus, oversaw significant library investments including the purchase of property for a future building site, demolition of existing buildings and building renovation projects on the current facility.

● Led the organization and digitization of the library's archival records.

● Served as the public representative for the library, developing business relationships with local school, museum and tribal government entities.

● Developed an objective-based analysis system for measuring library services - including a full collection analysis of the library's 50,000+ circulating items and their records.

November 2010 - January 2013
Librarian & Branch Manager, Anchorage Public Library ● Anchorage, Alaska

● Headed the 2013 Anchorage Reads community reading campaign including event planning, staging public performances and creating marketing materials for mass distribution.

● Co-led the social media department of the library's marketing team, drafting social media guidelines, creating original content and instituting long-term planning via content calendars.

● Developed business relationships with The Boys & Girls Club, Anchorage School District and the US Army to establish summer reading programs for children.

June 2004 - September 2005, September 2006 - October 2013
Library Assistant, Hart Area Public Library
Hart, MI

● Responsible for verifying imported MARC records and original MARC

cataloging for the local-level collection as well as the Michigan Electronic Library.

● Handled OCLC Worldcat interlibrary loan requests & fulfillment via ongoing communication with lending libraries.

Professional Involvement

Alaska Library Association - Anchorage Chapter
- Treasurer, 2012

Library Of Michigan
- Level VII Certification, 2008
- Level II Certification, 2013

Michigan Library Association Annual Conference 2014
- New Directors Conference Panel Member

Southwest Michigan Library Cooperative
- Represented the Dowagiac District Library, 2013-2015

Professional Development

Library Of Michigan Beginning Workshop, May 2008
Petoskey, MI
- Received training in cataloging, local history, collection management, children's literacy and reference service.

Public Library Association Intensive Library Management Training, October 2011
Nashville, TN
- Attended a five-day workshop focused on strategic planning, staff management, statistical analysis, collections and cataloging theory.

Alaska Library Association Annual Conference 2012 - Fairbanks, February 2012
Fairbanks, AK
- Attended seminars on EBSCO advanced search methods, budgeting, cataloging, database usage and marketing.

Depositions

2019 ● Fish & Richardson

Apple v. Qualcomm (IPR2018-001281, 39521-00421IP, IPR2018-01282 and 39521-00421IP2)

2019 ● Erise IP

Implicit, LLC v. Netscout Systems, Inc (Civil Action No. 2:18-cv-53-JRG)

2019 ● Perkins-Coie

Adobe Inc. v. RAH Color Technologies LLC (Cases IPR2019-00627, IPR2019-00628, IPR2019-00629 and IPR2019-00646)

2020 ● O'Melveny & Myers

Maxell, Ltd. v. Apple Inc. (Case No. 5:19-cv-00036-RWS)

2021 ● Pillsbury Winthrop Shaw Pittman LLP

Intel v. SRC (IPR2020-1449)

2022 ● Perkins-Coie

Realtek v. Future Link (IPR2021-01182)

2023 ● Fish & Richardson

Neuroderm Ltd. v. Abbvie, Inc (Case No. PGR2022-00040)

2023 ● Fish & Richardson

Nearmap US Inc. v. Pictometry International Corp. (IPR2022-00735)

2023 ● Fish & Richardson

Samsung Electronics v. MemoryWeb LLC (Case No. 39843-0136PS1)

2023 ● Pillsbury Winthrop Shaw Whitman LLP

Gravel Rating Systems v. Costco Wholesale Corp. (Civil Action No. 4:21-cv-149-ALM)

2024 ● Willkie-Farr

Netflix, Inc. v. VideoLabs. Inc. (IPR2023-00628)

Limited Case and Clientele History

Alston & Bird

- Ericsson

  v. Collision Communications (IPR2022-01233)

- Nokia

  v. Neptune Subsea, Xtera (Case No. 1:17-cv-01876)

- Universal Electronics Inc

  v. Roku Inc (IPR2022-00818)

Arnold & Porter

- Ivantis

  v. Glaukos (Case No. 8:18-cv-00620)

- Samsung

  v. Jawbone (Case No. 2:21-cv-00186)

Benesch Friedlander Coplan & Aronoff

- Voyis

  v. Cathx (Case No. 5:21-cv-00077-RWS)

Deschert LLP

- Smaxtec Animal Care

  v. ST Reproductive Technologies, LLC (IPR2024-00885)

Erise I.P.

- Apple

  v. Ericsson Inc. (IPR2022-00715)

  v. Future Link Systems (IPRs 6317804, 6622108, 6807505, and 7917680)

  v. INVT (Case No. 20-1881)

  v. Navblazer LLC (IPR2020-01253)

  v. Qualcomm (IPR2018-001281, 39521-00421IP, IPR2018-01282, 39521-00421IP2)

  v. Quest Nettech Corp (Case No. 2:19-cv-00118-JRG)

  v. Telefonaktiebolaget LM Ericsson (IPR2022-00275)

  v. Theta IP, LLC (IPR2024-00818)

- Fanduel

  v. CGT (Case No. 19-1393)

- Garmin

  v. Phillips North America LLC (Case No. 2:19-cv-6301-AB-KS)

- Netscout
    - v. Longhorn HD LLC (Case No. 2:20-cv-00349)
    - v. Implicit, LLC (Civil Action No. 2:18-cv-53-JRG)

- Sony Interactive Entertainment LLC
    - v. Bot M8 LLC (IPR2020-01288)
    - v. Infernal Technology LLC (Case No. 2:19-CV-00248-JRG)

- Unified Patents
    - v. GE Video Compression (Civil Action No. 2:19-cv-248)

Fish & Richardson

- Apple
    - v. AliveCor (3:21-cv-03958)
    - v. LBS Innovations (Case No. 2:19-cv-00119-JRG-RSP)
    - v. Koss Corporation (IPR2021-00305)
    - v. Masimo (IPR 50095-0012IP1, 50095-0012IP2, 50095-0013IP1, 50095-0013IP2, 50095-0006IP1, 50095-0135IP1)
    - v. Neonode (Case No. 21-cv-08872-EMC)
    - v. Qualcomm (IPR2018-001281, 39521-00421IP, IPR2018-01282, 39521-00421IP2)

- Dell
    - v. Neo Wireless (IPR2022-00616)

- Dish Network
    - v. Entropic Communications, LLC (Case No. 2:2023-CV-01043)

v. Realtime Adaptive Streaming (Case No. 1:17-CV-02097-RBJ)

v. TQ Delta LLC (Case No. 18-1798)

- Evapco Dry Cooling

  v. SPG Dry Cooling (IPR2021-00688)

- Genetec

  v. Sensormatic Electronics (Case No. 1:20-CV-00760)

- Huawei

  v. Bell Northern Research LLC (IPR2019-01174)

- Kianxis

  v. Blue Yonder (Case No. 3:20-cv-03636)

- LG Electronics

  v. Bell Northern Research LLC (Case No. 3:18-cv-2864-CAB-BLM)

- Metaswitch

  v. Sonus Networks (IPR2018-01719)

- Microsoft

  v. Throughputer Inc (IPR2022-00757)

- Mom Enterprises

  v. Ddrops Company (Case No. 1:22-cv-00332)

- MLC Intellectual Property

v. MicronTech (Case No. 3:14-cv-03657-SI)

- Nearmap Inc
  - v. EagleView Technologies (IPR2022-01009)

- Neuroderm Ltd.
  - v. Abbvie, Inc (Case No. PGR2022-00040)

- Realtek Semiconductor
  - v. Future Link (IPR2021-01182)

- Quectel
  - v. Koninklijke Philips (Case No. 1:20-cv-01710)

- Samsung
  - v. Aire Technology (IPR2022-00877)
  - v. Bell Northern Research (Case No. 2:19-cv-00286-JRG)
  - v. Communication Technologies Inc (IPR2022-01221)
  - v. Jawbone Innovations (IPR2022-00865)
  - v. MemoryWeb LLC (IPR2022-00885)
  - v. Dodots Licensing Solutions (IPR2023-00701)
  - v. Telefonaktiebolaget LM Ericsson (IPR2021-00615)

- Texas Instruments
  - v. Vantage Micro LLC (IPR2020-01261)

- Xilinx
  - v. Sentient Sensors LCC (Case No. 1:22-cv-00173)

Groombridge Wu

- Nearmap

  v. Eagle View Technologies Inc. and Pictometry International Corp. (Case No. 2:21-cv-00283-TS-DAO)

Irell & Manella

- Curium

O'Melveny & Myers

- Apple

  v. Maxell (Case No. 5:19-cv-00036-RWS)

- Disney Media & Entertainment Distribution LLC

  v. Digital Media Technology Holdings, LLC (Case No. 2:22-cv-01642)

- Micron Technology Inc.

  v. Besang Inc (IPR2023-00900)

- Samsung

  v. Daedalus Prime LLC (1335 Investigation)

Perkins-Coie

- Amazon

  v. Nokia (IPR2024-00847 and IPR2024-00848)

- Heru Industries
  - v. The UAB Research Foundation (IPR2022-01148)
- Intel Corporation
  - v. BeSang Inc. (IPR2023-00991)
  - v. BitMICRO (Case No. 5:23-cv-00625)
  - v. Telefonaktiebolaget L M Ericsson (IPR2024-00610)
- Realtek Semiconductor
  - v. Future Link (IPR2021-01182)
- Twitter Inc
  - v. VOIP-Pal.com (Case No. 3:20-cv-02397-JD)
- TCL Industries
  - v. Koninklijke Philips NV (IPR2021-00495, IPR2021-00496 and IPR2021-00497)

Pillsbury Winthrop Shaw Pittman

- Intel
  - v. FG SRC LLC (Case No. 6:20-cv-00315)
- Gravel Rating Systems
  - v. Costco (Case No. 4:21-cv-149)
  - v. Lowe's Home Centers (Case No. 4:21-cv-150)
  - v. T-Mobile USA (Case No. 4:21-cv-152)
  - v. Kohl's Inc. (Case No. 4:21-cv-258)
  - v. Under Armor (Case No. 4:21-cv-356)

Quinn Emanuel

- ServiceNow, Inc.

  v. InQuisient, Inc. (Case No. 22-900-CJB)

- Wolfspeed

  v. The Trustees of Purdue University (Case No. 1:2021-cv-00840)

Sheppard, Mullin, Richter & Hampton LLP

- Cadence Design Systems Inc.

  v. Semiconductor Design Technologies (Case No. 3:23-cv-01001)

Stern, Kessler, Goldstein & Fox

- Preliminary Research

Willkie, Farr & Gallagher LLP

- Neurent

  v. The Foundry, LLC (IPR2024-00669)

- Netflix, Inc.

  v. VideoLabs, Inc. (IPR2023-00628)

APPENDIX IA01

https://web.archive.org/web/20030415000000*/http://www.library.otago.ac.nz/cattut/about.html September 23, 2024

INTERNET ARCHIVE WEB TEXTS VIDEO AUDIO SOFTWARE IMAGES SIGN UP | LOG IN UPLOAD Search

ABOUT BLOG PROJECTS HELP DONATE CONTACT JOBS VOLUNTEER PEOPLE

DONATE

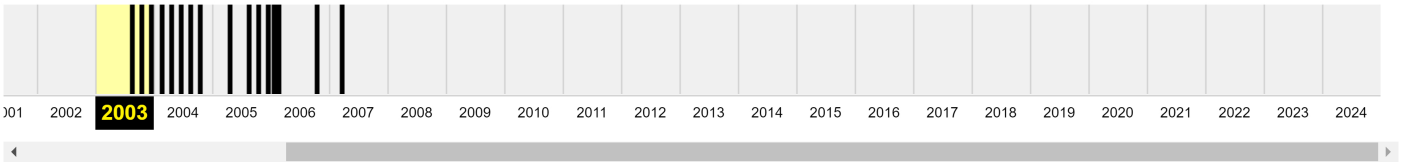
INTERNET ARCHIVE WayBackMachine

Explore more than 916 billion web pages saved over time

http://www.library.otago.ac.nz/cattut/about.html

Calendar · Collections · Changes · Summary · Site Map · URLs

Saved **16 times** between August 14, 2003 and March 2, 2007.



JAN

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Note

This calendar view maps the number of times **http://www.library.otago.ac.nz/cattut/about.html** was crawled by the Wayback Machine, *not* how many times the site was actually updated. More info in the FAQ.

FAQ | Contact Us | Terms of Service (Dec 31, 2014)

The Wayback Machine is an initiative of the Internet Archive, a 501(c)(3) non-profit, building a digital library of Internet sites and other cultural artifacts in digital form. Other projects include Open Library & archive-it.org.

Your use of the Wayback Machine is subject to the Internet Archive's Terms of Use.

https://web.archive.org/web/20030814134633/http://www.library.otago.ac.nz/cattut/about.html September 23, 2024

INTERNET ARCHIVE WayBack Machine http://www.library.otago.ac.nz/cattut/about.html Go JUL AUG OCT
16 captures 14 2002 2003 2004 About this capture
14 Aug 2003 - 2 Mar 2007

Home > Catalogues >

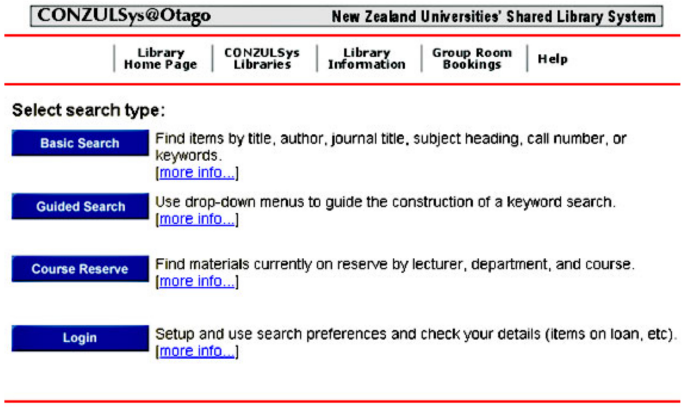
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Introduction

This tutorial will guide you through the major features of the University of Otago Library's Catalogue.

The Catalogue lists items in the Library units on the Dunedin, Wellington, and Christchurch campuses of the University of Otago.

It can be accessed from any computer connected to the internet at https://otago.conzulsys.ac.nz



Open another browser window so you can practise examples in the Catalogue as you go. The Alt and Tab keys can be used to move between the two browser windows. Practice examples can be found at the foot of most pages.

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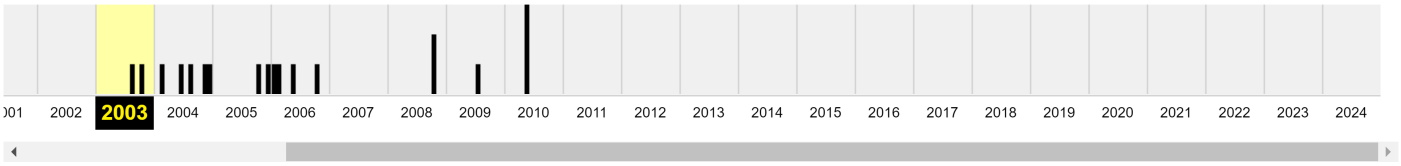
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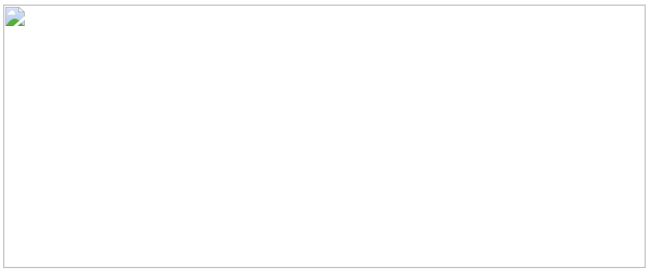
Basic Search

 is for quick searches.

To perform a Basic Search:

1. Enter search term(s) in the **Search for** box
2. Select the type of search from the **Search by** box
3. Limit the search by either
   a. selecting a limit from the **Quick Limit** box; or
   b. clicking **More Limits** and choosing from a list
4. Select how many search results you want displayed on each page
5. Click **Search**

Example:	Search for the videos/DVDs held by the library that relate to the book *Lord of the Rings* which was written by J.R.R. Tolkein



Note:

- Click **Reset** to clear the Basic Search page
- Search examples and search tips can be found at the foot of the Basic Search page

Practice examples:	Search for books written by the British Museum
	Search for the journal *New Scientist*
	Search for items on the subject of ecology

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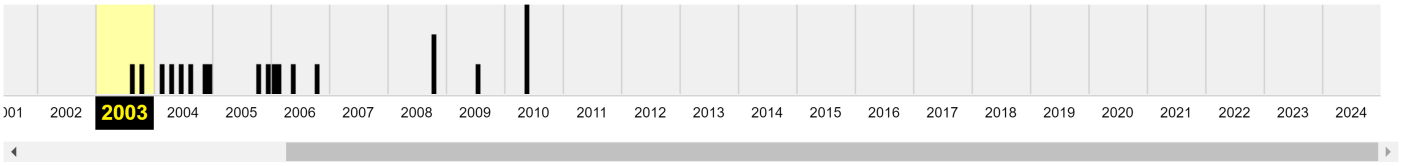
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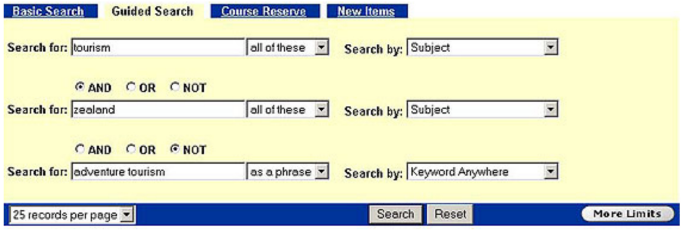
Guided Search

finds records using keywords or phrases located anywhere in a record, or only in specific fields.

To perform a Guided Search:

1. Enter the search term(s) you want to find in the **Search for** box
2. Select whether to search for **all of these** terms, **any of these** terms, or the terms **as a phrase**
3. Select a specific field from the **Search by** box
4. Use **AND**, **OR**, or **NOT** to combine the next search terms
5. If required, click **More Limits** to apply limits to your search
6. Select how many search results you want displayed on each page
7. Click **Search**

Example:	Search for information about tourism in New Zealand but not about adventure tourism



Note:

- Click **Reset** to clear the Guided Search page

Practice example:	Search for information comparing human rights in England and New Zealand before the year 2000.

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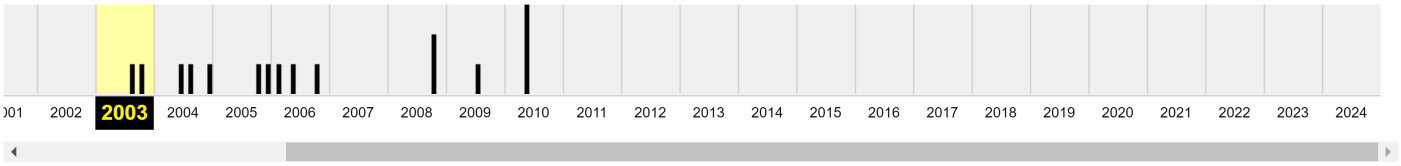
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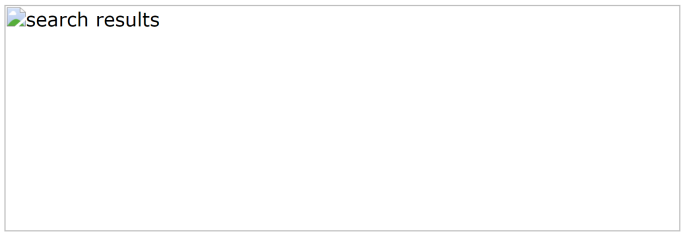
Search results

displays the results of a search.

- Sorting a Titles List
- Saving, Emailing and Printing Records from a Titles List

Keyword search results display in order of relevancy while all other searches display in alphabetical order.

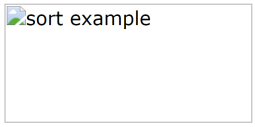
Example:	Results from a keyword search on mountain climbing



Sorting a Titles List

The display order of a Titles List can be changed by sorting by **Title**, **Author**, **Earliest Date First**, or **Latest Date First**.

For example:



Saving, Emailing and Printing Records from a Titles List

You can save information about the current records displayed.
To save information about specific records:

1. Mark the record(s) you are interested in by clicking in the white box on the left. A checkmark will display.

For example:



2. Click **Selected on Page** in the **Records** column.



3. Select the format in which you want to download the record(s):
Full Record, Brief Record or EndNote Citation.

4. Click **Format for Print/Save** to save the record(s). This allows you to save the records to your computer or a disk, or format for printing.

Or

Enter your email address in the box and click **Send** to email yourself the records.

Or

Click **Add to Saved Items** to add the records to your own personal list. This will require you to **Login**.

Note:

- To select items from several pages you MUST click **Retain Selection** before you move to another page
- Click **Selected all Pages** to save information about all records
- Click **All on Page** to save information about all of the current records
- Click **Clear Selection** to clear the checkmarks from all of the currently selected titles

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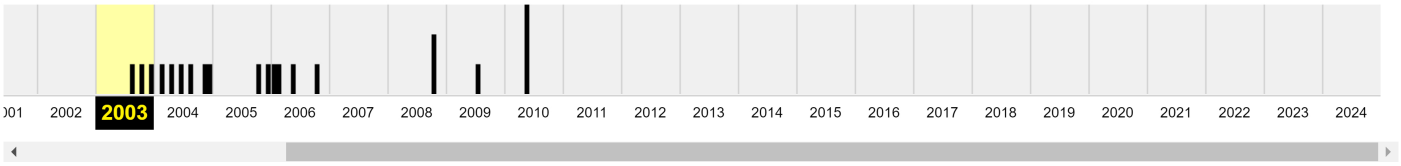
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Item Records

Viewing an item record

To view an item record:

1. Click an underlined title in the Titles List

For example:

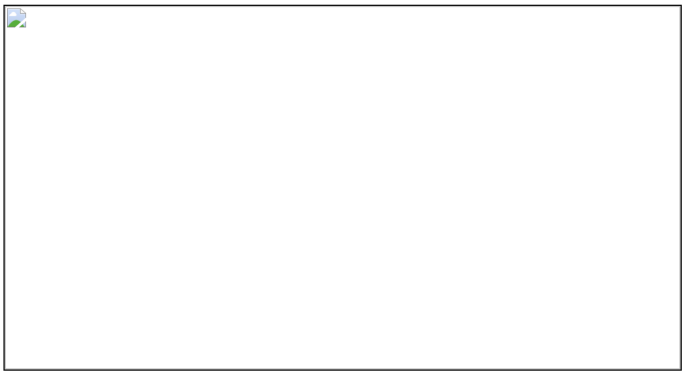


 (default display)

The Full Record contains detailed bibliographic information and a summary of library holdings. **Main Author** and **Subject(s)** terms are live links to other related authors and subjects.

The options to print, email, or save the Full Record are available from the **Record Options** box.

For example:



Note:

- To look at the Full Records of a keyword search without returning to the Titles List use
- Click **Titles List** to return to the search results
- Click **New Search** to begin a new search



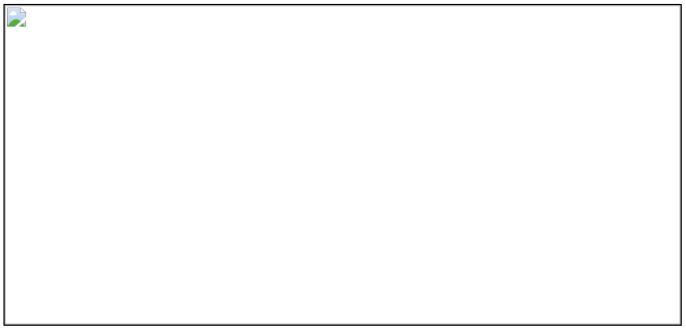
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1. Click **Holdings** when the Full Record displays

The Holdings screen contains detailed holdings information and a summary of the bibliographic information. **Main Author**, **Title**, and **Call Number** may link to related authors, titles, and call numbers.

The options to print, email, or save the Full Record are available from the **Record Options** box.

For example:



Note:

- To look at the Holdings of a keyword search without returning to the Titles List use
- Click Titles List to return to the search results
- Click New Search to begin a new search

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APPENDIX IA02

https://web.archive.org/web/20030601000000*/http://www.isb2003.otago.ac.nz/pdf/ISB-detailed-programme.pdf September 23, 2024

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Scientific Programme in Detail

University of Otago

Sunday 6 July 2003

8.00am	Registration Desk opens	Information Services Building
9.00 – 12.00	**Tutorial 1** - Muscle Mechanics	Castle C
	Tutorial 2 - 3D Rotational Analysis	Castle D
12.00 – 1.00pm	Lunch for Tutorial participants	
12.00 noon	Travel and Tour Desk open	
1.00 – 4.00pm	**Tutorial 3** - Computer Simulation of Movement	Castle C
	Tutorial 4 - Shoulder Biomechanics	Castle D

Scientific Programme in Detail

University of Otago

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12.00 noon	Travel and Tour Desk open	
1.00 – 4.00pm	**Tutorial 3** - Computer Simulation of Movement	Castle C
	Tutorial 4 - Shoulder Biomechanics	Castle D
4.00 – 5.00pm	**Mihi Whakatau, Ngai Tahu Whanui and Opening Ceremony** Chair: Peter Milburn	St David Lecture Theatre
5.00 – 6.00pm	**Wartenweiler Lecture** Twist verus bend: flexibilility in the face of flow. *Steven Vogel , Durham, USA* Chair: Peter Milburn	St David Lecture Theatre
6.00 – 7.30pm	Welcome Reception and Official Trade Exhibition Opening	Information Services Building
7.30pm	Registration Desk closes	

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Monday 7 July 2003

8.00am Registration Desk opens — Information Services Building

9.00 – 10.00am **Keynote Presentation** — Castle 2
Mechanical paradigms in terrestrial locomotion
Alberto Minetti, Manchester, England
Co-chairs: Kit Vaughan and Peter Milburn

10.00 – 11.00am Session 1 Podium Presentations

Biomechanics of Articular Cartilage
Castle 1
Chair: Tony Poole

10.00
Transversely isotropic, transversely homogeneous FE analysis of articular cartilage
Salvatore Federico

10.15
The effects of In vivo joint loading on articular cartilage cell viability
Sean Craig, Young Investigator Award Nominee

10.30
Strain and rupture behaviour of the articular surface under compression on-bone
Rene Flachsmann

10.45
Microscopic strain measurement in articular cartilage using image correlation method
Nobuyuki Shibata

Theories of Human Locomotion
Castle 2
Chair:

10.00
Ontogeny of human locomotion revealed by allometric scaling
Kit Vaughan

10.15
From running to walking
Hartmut Geyer

10.30
A passive dynamic walking model that walks on level ground
Mario Gomes

10.45
Characteristics of invented pendulum movement.
Takashi Mitsui

Knee Joint Kinematics
Burns 1
Chair: Julie Steele

10.00
Analysis of ACL impingement against the intercondyler notch based on MRI data
David Fung

10.15
Kinematics of activities of high range of knee motion
Urs Wyss

10.30
Kinematic changes after ligament transection during walking, incline walking, and trotting in an animal model of osteoarthritis
Janet Tapper

10.45
Gender differences in knee joint kinematics and kinetics during an unanticipated cutting maneuver
Christine Pollard, presented by Joseph Hamill

Neuromuscular Control of Posture
Burns 2
Chair: Greg Anson

10.00
Information flow in the postural control system
Chris Kirtley

10.15
Adaptation of reflexive feedback during arm posture to different environments
Erwin De Vlugt

10.30
The development effects of standing control in children
Chung-Yu Chen

10.45
Quantifying proprioceptive reflexes during posture tasks
Alfred Schouten

11.00 – 11.30am Morning tea — Information Services Building

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11.30 – 12.30pm **Session 2 Podium Presentations**

General Biomaterials Castle 1 *Chair: Rene Flachsmann*	**Paediatric Pathological Gait** Castle 2 *Chair: Sharon Walt*	**Behaviour of Knee Articular Cartilag** Burns 1 *Chair: Richard Newsham-West*	**Control of the Upper Limb** Burns 2 *Chair: Alan Walmsley*
11.30 The abrasive water-jet as a new tool for the resection of cancellous bone *Karsten Schwieger*	11.30 Time frequency of myoelectric signals from children with cerebral palsy: A new muscular co-contraction assessment technique *Prism Schneider*	11.30 Modeling of mechanical responses of chondrocytes to cycle loading in unconfined compressions *John Wu*	11.30 Inter-digit coordination and force control in finger-pinching *Justin Keogh*
11.45 The young's modulus of cancellous bone in the rheumatoid and normal hand *Andrew Stephenson*	11.45 The plantar pressure pattern of down syndrome children *Saiwei Yang*	11.45 Study of the architecture and biomechanics of collagen fibre in articualr cartilage *Jianping Wu*	11.45 Biomechanical approaches for clinical muscle tone assessment of elbow spasticity *Jia-Jin Chen*
12.00 Finger pad viscoelastricity under tangential load *Todd Pataky*	12.00 A gait analysis model for children developed from MRI scans *Sian Jenkins*	12.00 Nanoindentation as a tool for measuring cartilage repair tissue properties *Donna Ebenstein*	12.00 The effects of limb support on finger tremor dynamics in healthy adults *Peter Mills*
12.15 A candidate cytokine for site-specific mediation of disuse osteopenia *Ted Gross*	12.15 Measuring intersegmental prosthetic motion during gait using a cam *Martin Twiste*	12.15 Intraoperative knee anthropometrics: Correlation with cartilage wear *Niall Rooney*	12.15 Analysis of hand biomechanics using a sensorised glove *Silvestro Micera*

12.30 – 1.30pm Lunch — Information Services Building

1.30 – 2.30pm **Keynote Presentation** — Castle 2

The assessment of neural factors in muscle fatigue
Roger Enoka, Colorado, USA
Sponsored by Air New Zealand
Co-chairs: Walter Herzog and Alan Walmsley

AIR NEW ZEALAND

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2.30 – 4.00pm **Session 3 Podium Presentations**

Modeling of Biomaterials	**Balance in Gait**	**Total Knee Replacement**	**Neuromuscular Control of the Leg**
Castle 1	Castle 2	Burns 1	Burns 2
Chair: Peter Davidson	*Chair: Chris Kirtley*	*Chair: Thomas Brown*	*Chair: Walter Herzog*
2.30 The influence of the hip joint prosthesis construction and material properties on bone remodeling *Marek Pawlikowski*	2.30 Measuring the fractal dimension to gain an understanding of the control of quiet stance *Tim Doyle*	2.30 Analysis of the inlay mobility in a mobile bearing knee replacement *Marc Muenchinger*	2.30 A new kinetics-based classification of the stance phase of walking *Motoshi Kaya, Young Investigator Award Nominee*
2.45 Probabilistic continum damage mechanics modeling of cortical bone *Dwight Davy*	2.45 Clincial assessment of children balance under virtual reality environment *Hsiao-Yu Lee*	2.45 Computer based modelling of malalignment in total knee arthroplasty *Monika Zihlmann*	2.45 Neural and mechanical influences on the initiation of the squat jump *Christopher Hasson*
3.00 32 personalised reconstruction of proximal femur from bi-planar dxa images *Anthony Le Bras, Young Investigator Award Nominee*	3.00 Compensatory relationships between kinematic degrees of freedom minimise toe clearance variability during walking *Peter Mills*	3.00 A system for functional assessment of TKRs using fluoroscopy, kinetics and modeling *Tom Ward*	3.00 Adaption of muscle activation patterns to the starting position in squat jumping *Maarten Bobbert*
3.15 Adaptation of the distralfemoral growth plate to mechanical loading: Biomechanical, biochemical and morphologial alterations *Anja Niehoff*	3.15 Analysis of impulse response on walking balance *Masako Tsuruoka*	3.15 Finite element analysis of TKR mechanics *Simone Machan*	3.15 Longitudinal excursion of peripheral nerves of the human lower limb *Awais Babri*
3.30 Strain rate directs bone adaptation *Jeremy LaMothe, Young Investigator Award Nominee*	3.30 Mechanical energy in the recovery after a stumble *Bart Koopman*	3.30 Fatigue analysis of tibial baseplate in fixed and mobile bearing knee prosthesis *Chang-Hung Huang*	3.30 Changes in knee muscle function caused by ACL creep *Richard Baratta*
3.45 The biomechanics of ossified tendons in ornithopod dinosaurs *Chris Organ*	3.45 The lower limb mechanical response at landing from a jump in children discloses two different strategies for adapting to unloading *Sophie De Serres*	3.45 Fatigue testing of ultracongruent polyethylene inserts in TKA *Bernd Heinlein*	3.45 Intra-muscular EMG shows varying coactivation patterns in individual thigh muscles during isometric flexor and extensor actions *Jan Seger*

4.00 – 4.30pm Afternoon tea Information Services Building

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Anna Ahn 104
Kinematics and kinetics of walking and running in the frog, Kassina maculate

Moshe Ayalon 91
Relationship between plantar pressure distribution and running speed

Vihren Bachev 1
Data acquisition and control system in rowing sport MONTRAC 211.2

David Ben-Sira 92
Principle component analysis of plantar pressure distribution during running at different velocities

Andrew Betik 15
Effect of cadence during level and uphill cycling in the field

Steven Blackburn 36
Intertia errors of force plate analysis of artificial turf

Philippe Brachet 37
Mechanical properties of an artificial turf using a servo-hydraulic and drop-weight impact testers, comparison of the two methods with the Berlin athlete

Judith Burnfield 87
Prediction of peak utilized coefficient of friction requirements during walking based on center of mass kinematics
Presented by Samuel Ward

Hsiang-Ho Chen 63
The effect of turn on waltz walk
Presented by Kung-Chai Li

Hao-Ling Chen 71
An optimization-based model for the estimation of segmental inertial properties

Sheng-Chang Chen 81
Kinematic and kinetic analyses of obstacle-crossing in healthy old and young adults

Ching-Cheng Chiang 25
Quantitative assessment of balance ability between archers and non-athletes

Christophe Cornu 18
Ground and tyre effects on the external mechanical parameters during standardised off road bicycle efforts

Christophe Cornu 19
Knee muscles mechanical and electromyographic parameters in high jumper athletes

Sonia Correa 8
Influence of plyometric training on the kinematics of the 50 meters front crawl start

Sonia Correa 9
Biomechanical changes to increase skate velocity for athletes on hockey skates

Markus Dettwyler 74
Static in situ calibration of statically over determined ground reaction force measurement platforms (FMP)

Daniel Fong 89
Electromyographic response of trunk muscles during load carriage walking in children
Presented by Youlian Hong

Adrian Gagea 80
Biomechanics possess laws

Wendy Gilleard 99
Effect of parity on the biomechanics of rising to stand from chair: A case study

Ambarish Goswami 86
Kinematic quantification of gait symmetry based on bilateral angle-angle diagrams

Jinger Gottschall 98
Ground reaction forces during downhill and uphill running

Jinger Gottschall 100
Mechanical energy fluctuations during hill running: Reduced role of elastic energy

Michael Hahn 76
Neuromuscular challenge in the elderly during locomotion: an EMG study

Kazunori Hase 14
A comprehensive biomechanical study of ergometer rowing with musculoskeletal models

Yuichi Hirano 47
Effects of ball movement and position at impact on grip firmness in baseball batting

Koji Hoga 34
Mechanical energy change of world elite race walkers during 20km race

Yu-Ting Huang 62
Temporal patterns in basic waltz walk

Tsung-Ying Hung 4
The effect of propulsive force by different movement in front crawl swimming

Adrienne Hunt 93
Variability in ankle joint moments compared between two orthogonal axes systems

Akira Ito 41
Relationship between javelin performance and the throwing movement of male javelin throwers (Part 1)

Masahiro Kaneko 73
Quantitative comparison of total mechanical work calculated by different methods
Presented by Satoru Tanabe

Min-Chi Kao 5
The analysis of swimming grab start and step start

Ken-Ichi Katoh 84
A longitudinal study on the development of running motion in female children

Justin Kavanagh 90
Head and trunk accelerations during walking in healthy young and elderly men

Ryuji Kawamoto 31
Non-invasive quantification of torsional shear stresses along the tibia during running

Eui-Hwan Kim 55
A kinematic analysis of two-handed backhand drive in tennis

Sekiya Koike 49
Kinetics of the upper extremities during baseball batting

Takayuki Koike 95
The transitions of human walk-run and heel-forefoot landing during running influenced by shod and barefoot condition

Shyamal Koley 66
Impact of body composition study in biomechanical analysis in Indian male hockey players

Hiroyuki Koyama 39
Effect of the swing motion of the free leg on the takeoff for elite long jumper

Shigetada Kudo 2
A method for determining instantaneous values of fluid forces acing on a hand model

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Mayumi Kuno-Mizumura 78
The effect of muscle stretching on the mechanical and physiological characteristics of the triceps surae muscle

Jung-Chuan Kuo 60
Effects of sprint training on vault approach velocity

Winson Lee 7
A study of jumping ability during swimming grab start - A preliminary study

Chih-Hang Lien 44
Comparison of direction-dependent perturbation responses in balance control for different Judo throwing methods

Chiang Liu 52
The swing velocity and muscle activity of different weighted bat

Hitoshi Makabe 105
Evaluation of the effect of vim-thalamotomy by using chaos theory

Tomoyuki Matsuo 48
Lateral truck tilt influences the optimal shoulder abduction during baseball pitching

Michael McDonald 6
Biomechanical comparison of three competitive swim start techniques

Scott McLean 26
Effects of a simulated defensive opponent on sidestep cutting biomechanics

Peter McNair 13
The effects of a hamstring muscle stretching program on lumbar and pelvic angles during rowing

Jill McNitt-Gray 35
Multijoint control strategies used to generate impulse during goal directed movements

Kazuyuki Mito 104
Evaluation of muscular function by muscle fiber conduction velocity during static and dynamic contractions

Tomohisa Miyanishi 50
Transfer of angular momentum in the fastball baseball pitch

Shinji Mizumura 79
Motor unit firing behavior on the vastus medialis muscle during voluntary isometric ramp contractions

Gaspar Morey-Klapsing 75
Kinematic Parameters during tilt and landings using a 7 segment rigid body model of the lower leg
Presented by Adamantios Arampatzis

Carlos Mota 68
Analysis of ground reaction force in a gym movement

Carlos Mota 69
Kinematics analysis of children gait carrying knapsack with different overload

Masatoshi Murakami 42
Relationship between javelin performance and the throwing movement of male javelin throwers (Part 2)

Yuya Muraki 20
Kinematic contribution of the takeoff leg joints to the velocity of the centre of gravity in the long jump

Anna Murphy 97
Influence of partial foot amputation on sagittal gait mechanics and locomotor function

Mari Nakamura 46
Quantitative classification of baseball pitch styles

Fuminori Nakiri 43
The influence of the datotsu-motion in kendo to the player's human body (head and neck) - simulation experiment with dummy doll

Yoshinori Nishijima 83
Electromyographic analysis of partial body weight support and load carrying on the normal human gait

Mutsuko Nozawa 56
General characteristics of swing motion in professional and amateur female golfers

Hidetaka Okada 85
Changes in walking kinetics with aging for elderly males older than sixty

Kazuki Okuyama 21
Three dimensional joint torque of the takeoff leg in the Fosbury flop style

Damien O'Meara 101
The effect of grabrail position on peak lower body net joint forces during assisted sit-to-stand transfers

Ikko Omura 22
Analysis of the approach run in the Japanese junior triple jumpers

Matthew Pain 33
Identifying reaction times in sprint starts: hardware and software development
Presented by Mark King

Young-Hoon Park 57
The accuracy effect of putter face angle and head path in golf putting simulation

Nicola Petrone 16
Integrated analysis of bicycle posture for the optimization of cycling efficiency

Nicola Petrone 17
Biomechanical analysis of long jump movement for the optimization of the technical action

Pierre Portero 45
Evolution of kinematic and electromyographic parameters during the different phases of a throw - A preliminary study

Franck Quaine 64
Effect of the finder position on maximal fingertip force and fatigue of the extrinsic muscles of the hand during a simulated rock climbing gripping exercise
Presented by Pierre Portero

Douglas Rosemond 30
The effect of increased lateral spacing of blocks on the sprint start

Jiseon Ryu 96
The effect of fatigue caused by running time on the kinematic parameters of the lower extremity

Shinya Sano 67
Viscoelastic characteristics of the new vaulting table of gymnastics and its effect on vaulting performance

Prism Schneider 102
Controlling centre of mass momentum in sit-to-stand after epidural analgesia infusion

Kazuya Seo 65
Aerodynamic characteristics on a rugby football

Martyn Shorten 38
Shoe-surface traction of conventional and in-filled synthetic turf football surfaces

Keizo Takahashi 51
Kinematic and kinetic comparison of different velocity baseball pitches

Yoshinori Takeshima 3
Calculation of front crawl stroke kick thrust

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Satoru Tanabe 53
The padding point extrapolation method for analyses of motion that includes collision with a ball

Radivoj Vasiljev 40
Ground force variables of basketball players with a various morphological types of lower limbs

Yun Wang 11
The effect of inclined ergometer on rowing performance

Ling Wang 23
Biomechanical analysis of skilled and unskilled jumpers during standing long jump

Li-I Wang 24
Age differences of leg stiffness on lower limb during vertical jump

Li-I Wang 61
Effects of plyometric training on basketball skill performance in female collegiate basketball players

Shi-Yi Wang 82
Symmetry and variability of vertical ground reaction force and center of pressure in able-bodied gait

Tetsu Yamada 59
The similarities of joint angle and torque patterns during technical training of the kip maneuver at the horizontal bar

Kyoung-Ok Yi 88
Three dimensional analysis of angular velocity in children's gait development process

Toshiharu Yokozawa 94
Relationships between ground reaction forces and kinematics during downhill running in distance runners

Yasuyuki Yoshida 54
Effect of backward acceleration at trunk rotation on tennis serve

Masashi Yoshida 103
The stability of body in soft and stiff landings

Jun Yuda 10
Kinetics of the free joints of long distance speed skaters during curving

Koji Zushi 29
The changes of movement control during acceleration in human sprinting

5.30 – 6.30pm	Happy hour amongst the trade exhibition	Information Services Building
6.30pm	Registration Desk closes	
6.30 – 7.00pm	Te Whanau o Kai Tahu ki Araiteuru Máori Cultural Group performance	Castle 1

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Tuesday 8 July 2003

7.45 – 8.45am Student Breakfast Session (optional) — The Staff Club
Sponsored by Massey University Sport and Life Sciences
Chair: Melanie Bussey

8.00am Registration Desk opens — Information Services Building

9.00 – 10.00am **Keynote Presentation** — Castle 2
The emu as an animal for osteonecrotic femoral head collapse
Thomas Brown, Iowa, USA
Co-chairs: Sandra Olney and Peter Milburn

10.00 – 11.00am **Session 1 Podium Presentations**

Dynamical Systems Analyses in Locomotion
Castle 1
Chair: Keith Davids

10.00
Locomotion stability and variability are independent of each other
Li Li

10.15
Continuous relative phase as a measure of coordination: Application issues
Jeffrey Haddad

10.30
Clinical relevance of coordination variability
Bryan Heiderscheit, presented by Joseph Hamill

10.45
Round table discussion
Joseph Hamill

Aquatic Biomechanics
Castle 2
Chair: Barry Wilson

10.00
An innovation for swimming stroke monitoring tri-axial accelerometer and gyroscope data logger for stroke analysis
Yuji Ohgi

10.15
The modelling and analysis of the parameters on the rowing shell velocity
Erkan Onder

10.30
Dynamical comparison of two rowing ergometers
Floren Colloud

Knee Joint Models I
Burns 1
Chair: Andrew Swann

10.00
Three dimensional reconstruction of the knee from biplanar X-rays
Laurent Node-Langlois, presented by David Milton

10.15
A 3D dynamic model of the knee joint for the preoperative evaluation of ligament reconstructions: Model construction and optimization
Yan Chevalier

10.30
3D FE model of the patellofemoral joint contact
Sang-Kuy Han

10.45
A 3D reconstruction of knee bones from biplanar x-rays
Sebastien Laporte, presented by David Milton

Theories of Balance
Burns 2
Chair: Kit Vaughan

10.00
Use of adaptive model of balance control in the identification of postural dynamics
Herman van der Kooij

10.15
Abdominal cocontraction during lifting is aimed at increasing trunk stiffness
Jaap van Dieen

10.30
Bifurcation and stability analysis in musculo-skeletal systems
Bart Verdaasdonk

11.00 – 11.30am Morning tea — Information Services Building
Sponsored by ADInstruments Ltd

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11.30 – 12.30pm **Session 2 Podium Presentations**

Foot Impact in Gait	**Ballistic Sports Analysis**	**Knee Joint Models II**	**Neuromuscular Biomechanics I**
Castle 1	Castle 2	Burns 1	Burns 2
Chair: Patria Hume	*Chair: Toshimasa Yanai*	*Chair: David Gerrard*	*Chair: Maarten Bobbert*
11.30 The variation of dynamic foot pressure with gait parameter *Chat Chau Law*	11.30 Impact phase kinematics of instep kicking in soccer *Hiroyuki Nunome*	11.30 A new robot based setup for exploring the stiffness of anatomical structures *Martin Frey*	11.30 A knee-ankle-foot orthosis (kafo) powered by artificial pneumatic muscles *Gregory Sawicki*
11.45 Barefoot, insole and ground pressure measurement during running *Craig Nevin*	11.45 The velocity characteristic of lower extremity during round kick performance *Xinhai Shan*	11.45 Load-deformation of the soft restraints of the Patella *Judi Laprade*	11.45 A pilot study on effects of walking poles on ground reaction forces in the obese *Wendy Gilleard*
12.00 Time-frequency analysis of lower limb loading transients associated with perception of impact severity *Mark Lake*	12.00 A kinematic analysis of Uchi-mata (inner thigh reaping throw) by Kumi-kata types and two opponents' different height in Judo *Eui-Hwan Kim*	12.00 The effect of estrogen on anterior tibial displacement and anterior tibial shear *Susan Verscheure*	12.00 Effects of vision and practice on intersemental dynamics of rapid aiming movements *Masashi Yoshida*
12.15 Analysis of foot motion and loading in healthy children during gait *Julie Stebbins*	12.15 Biomechanical analysis between badminton standing smash and jumping smash in the different target set up *Chien-Lu Tsai*	12.15 Mechanical property difference of the femoral head between the patients with osteoarthritis and osteoporosis *Hung-Wen Wei*	12.15 Neural coupling between arm and leg muslcles during recumbent stepping *Helen Huang*

12.30 – 1.30pm Lunch — Information Services Building

1.30 – 2.30pm **Keynote Presentation** — Castle 2

Searching for optimum technique:
Inverse dynamics versus simulation/optimisation
Jesus Dapena, Indiana, USA
Co-chairs: Bruce Elliott and Barry Wilson

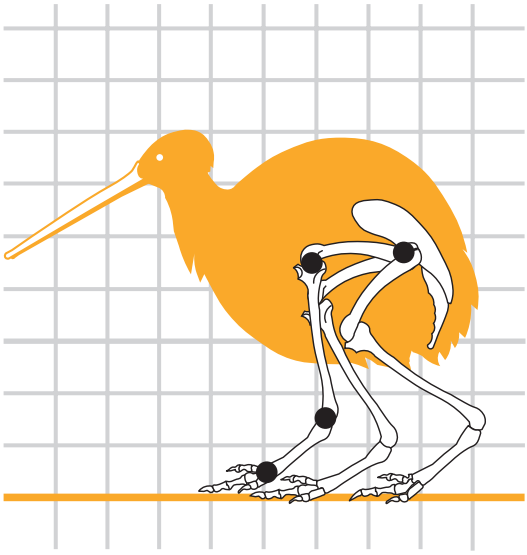
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2.30 – 4.00pm **Session 3 Podium Presentations**

Foot Biomechanics	**Biomechanics of Strength Events**	**Shoulder Biomechanics I**	**General Biomechanics**
Castle 1	Castle 2	Burns 1	Burns 2
Chair: Klaus Peikenkamp	*Chair: Peter Sinclair*	*Chair: Frans van der Helm*	*Chair: James Smeathers*
2.30 The relationship between foot type and dynamic foot function *Albert Mosheyev*	2.30 The net muscle torque of lower extremity during squat in clean and jerk *Jenvian Hu, presented by Wei-Hua Ho*	2.30 Scapulohumeral Rhythm: Relationship between motion velocity and rhythm *Kazuomi Sugamoto*	2.30 Constitutive model for behaviour of baseball *Rochelle Nicholls*
2.45 The relationship between ankle movement and the surface anatomy of the joint *Chris Monk*	2.45 Effect of squat depth on maximum height vertical jumping *Zachary Domire*	2.45 A biomechanical analysis of tendon transfer for a dysfunctional rotator cuff *Dennis Magermans*	2.45 Kinematic analysis of Australian elite seated shot-putters during the 2002 IPC World Championships: Parameters of the shot's trajectory *Laurent Frossard*
3.00 Modulation of muscle activation, kinetics and kinematics in heel-toe running in response to changes in midsole geometry *Uwe Kersting*	3.00 Calculating CMJ height by double integration of the vertical ground reaction force: Accurate subject mass measurement is more valid than using a mass correction factor *Mark Jaffrey*	3.00 Effects of infraspinatus disruption and the patch graft technique for large rotator cuff tears in shoulder abduction torque generation *Kai-Nan An*	3.00 The study of body segmental parameters of Asian adults from magnetic resonance imaging *Wei-Hua Ho*
3.15 Sagittal plane motion of the medial longitudinal arch is unchanged in plantar fasiitis *Scott Wearing, Young Investigator Award Nominee*	3.15 The adjustment of joint stiffness in two different drop jumps *Kuo Pei-Shin*	3.15 Reliability of the isokinetic shoulder flexion/extension test *Giannes Giakas*	3.15 The prediction of body segment parameters using a proposed elliptical model *Jim Dowling*
3.30 Rearfoot mechanics in competitive runners who had experienced plantar fascitis *Irene McClay Davis, presented by Joseph Hamill*	3.30 Effect of extra weight on standing long jump *Chenfu Huang*	3.30 Muscle activation patterns: The effects of fatigue on latent myofascial trigger points (LTrPs) during scapular plane elevation *Karen Lucas* 3.45 Mechanical load in the shoulder during wheelchair-related activities *Stefan van Drongelen*	

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4.00 – 4.30pm	Afternoon tea *Sponsored by ADInstruments Ltd*	Information Services Building
4.30 – 5.30pm	Muybridge Lecture The effects of elastic properties of muscle-tendon complex on sports performances *Professor Tetsuo Fukunaga, Waseda University, Japan* Chair: Kit Vaughan	Castle 2
5.30 – 6.30pm	Happy Hour amongst the trade exhibition	Information Services Building
6.30	Registration Desk closes	
6.30 – Late	Student pub crawl (optional)	
7.00pm	Scottish Banquet - Knox College (optional)	



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Wednesday 9 July 2003

8.00am Registration Desk opens — Information Services Building

9.00 – 10.00am **Keynote Presentation** — Castle 2
Mechanomyogram – a new approach to studying motor unit properties
Toshio Mortini, Kyoto, Japan
Co-chairs: Toshimasa Yanai and Peter Huijing

10.00 – 11.00am **Session 1 Symposium and Podium Presentations**

James G. Hay Symposium Castle 1 *Chair: Bruce Elliott*	**Muscle Mechanics I** Castle 2 *Chair: Constanstantinos Maganaris*	**Shoulder Biomechanics II** Burns 1 *Chair: Mary Rodgers*	**Methodology in Gait Biomechanics** Burns 2 *Chair: Richard Smith*
10.00 **"The contributions of Jim Hay in the field of sports biomechanics"** Opening remarks *Bruce Elliott*	10.00 Effect of post-tetanic potentiation on muscle contractile kinetics *Jacques Duchateau*	10.00 Evaluation of amputees' aptitude to drive active artificial upper limbs before prosthesis construction *Federico Casolo*	10.00 Reliability of the functional method of hip joint centre location *Gary Christopher*
"The early days": Angular momentum and deterministic models *Barry Wilson* "A constant focus" Track and field *Jesus Dapena*	10.15 A segmentation approach to long duration SEMG recordings: An ergonomic application *David Hewson*	10.15 Motion-capture system-based measurement of 6-DOF scapula movement aimed at dynamic motion analysis *Toyohiko Hayashi*	10.15 Repeatability of kinematic data for five segment foot/ankle model, and validation of its use in the definition of key gait events *Andrew Findlow*
Swimming *Toshi Yanaimasa* "The Auckland era": Distance frequency relationships *Patria Hume*	10.30 Rate of force relaxation following enhancement in single muscle fibers *David Corr, Young Investigator Award Nominee*	10.30 Modular components for detailed kinematic modelling of joints *Victor Ng-Thow-Hing*	10.30 Markerless human gait analysis via image sequences *Jang-Hee Yoo*
Concluding remarks *Walter Herzog and Benno Nigg*	10.45 Inter- and extramuscular connections determine muscle properties in spastic patients by myofascial force transmission *Mark Smeulders*	10.45 Magnetic resonance imaging-based measurement of 6-degree-of-freedom relative movement scapula and thorax *Yasuo Nakamura*	10.45 Inverse dynamic analysis using only vertical ground reaction force data *Ton van den Bogert*

11.00 – 11.30am Morning tea — Information Services Building

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11.30 – 12.30pm **Session 2 Podium Presentations**

Biomechanics of Running I Castle 1 *Chair: Alberto Minetti*	**Muscle Mechanics II** Castle 2 *Chair: Peter Sinclair*	**Wheelchair Biomechanics** Burns 1 *Chair: Kai-Nan An*	**The Knee in Locomotion** Burns 2 *Chair: Ton van den Bogert*
11.30 Effects of motion control shoes on running dynamics *Shuk Tong*	11.30 Finite element model of intramuscular pressure (IMP) during isokinetic contraction of skeletal muscle *Thomas Jenkyn*	11.30 Scapular kinematics during transfers in wheelchair users *Margaret Finley*	11.30 Large knee adduction moments during gait are related to weak knee extensors in partial menisectomy patients *Daina Sturnieks, presented by David Lloyd*
11.45 Interaction of step length and step rate during sprint running *Joe Hunter*	11.45 Mechanical properties of single motor units from human extensor carpi radialis muscle based on mechanomyogram and force *Karen Sogaard*	11.45 Kinematic geometry of the shoulder muscles during manual wheelchair propulsion determined with skeletal markers *Tung-Wu Lu*	11.45 Muscle activations to stabilise the knee in pathological gait *Thor Besier*
12.00 Adaptions in running kinematics associated with expected changes in cushioning at the foot-ground interface *Ben Patritti*	12.00 Biomechanical analysis of the pelvic floor muscles: Constitutive and FE modeling *Stepan Janda*	12.00 The effects of seat for-aft position in wheelie activity *Po-Chou Lin*	12.00 The muscles that influence peak knee flexion velocity during double support: Implications for stiff-knee gait *Saryn Goldberg*
12.15 Influence of the muscle-tendon- unit's energy storage capacity on running economy *Gianpiero De Monte* *Young Investigator Award Nominee*	12.15 Geometric and kinetic differences between joint and dynamometer during isometric contraction at the ankle joint *Adamantios Arampatzis*	12.15 The effects of seat height on seat fore-AFT position on the manual wheelchair propulsion biomechanics: Determined by a quasi-static model *Lan-Yuen Guo, presented by Fong-Chin Su*	12.15 Bilateral accommodations to anterior crucitate ligament deficiency and reconstruction *Reed Ferber*

12.30 – 12.45pm	Winner of the Clinical Biomechanics Award Presentation *Benhnam Heidari* Chair: Maarten Bobbert	Castle 2
12.45 – 1.45pm	ISB General Assembly	Castle 2
12.45 – 2.15pm	Lunch	Information Services Building
1.45 – 2.30pm	Australian and New Zealand Society of Biomechanics Special General Meeting	Castle 1
2.15pm	Free afternoon and evening	

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Thursday 10 July 2003

8.00am Registration Desk opens — Information Services Building

9.00 – 10.00am **Keynote Presentation** — Castle 2
Using biomechanical evidence to prevent and rehabilitate back disorders
Stuart McGill, Waterloo, Canada
Co-chairs: Barry Wilson, Micheline Gagnon

10.00 – 11.00am **Session 1 Podium Presentations**

Muscle Force Production
Castle 1
Chair: Roger Enoka

10.00
Myofascial force transmission is not only important for synergistic muscles but also for antagonist muscles
Peter Huijing

10.15
Myofascial effects of changes of length of a single head of multi-tendoned muscle
Huub Maas

10.30
In vivo force-velocity relationship of the human triceps brachii muscles
Yasuo Kawakami

10.45
The effects of activation on passive force enhancement in skeletal muscle
Walter Herzog

Biomechanics of Running II
Castle 2
Chair: Jill McNitt-Gray

10.00
Axial Shock transmission from tibia to femur during running
Wolfgang Potthast

10.15
Tibia impact shock in horizontal and side inclined running
Chiu-Sheng Lin

10.30
The ground reaction force patterns and impact shock in different slope locomotions
Yu-Hsiang Nien

10.45
Gender-dependent differences in level and downhill running
Klaus Peikenkamp

Lumbar Spine Loads
Burns 1
Chair: Barry Wilson

10.00
Loads on the lumbar spine during lifting: 4D WATBAK vs. inverse dynamics calculations
Michael Cole

10.15
Novice workers learnt expert workers' strategies for maneuvering boxes and improved their body mechanics
Micheline Gagnon

10.30
Forces and moments at L5/S1 for pregnant women performing a light-duty lifting task
Genevieve Dumas

10.45
The effect of a back support on the lumbar loads during sheep shearing
Stephan Milosavljevic

Orthotic and Prosthetic Gait I
Burns 2
Chair: Peter Milburn

10.00
A classification system for below-knee amputee gait mechanics
Anna Murphy

10.15
An improved ankle-foot orthosis powered by artificial pneumatic muscles
Daniel Ferris

10.30
In vivo study of Yesbio knee brace for stress relief in knee medical compartment of knee
Kuo-Dai Hou

10.45
Real-time visual feedback and energy consumption of amputee subjects
Brian Davis

11.00 – 11.30am Morning tea — Information Services Building

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11.30 – 12.30pm **Session 2 Podium Presentations**

Length-Tension Relationships Castle 1 *Chair: Walter Herzog*	**Sports Biomechanics II** Castle 2 *Chair: Alan Walmsley*	**The Upper Extremity in Work** Burns 1 *Chair: Edward Chadwick*	**Orthotic and Prosthetic Gait II** Burns 2 *Chair: Sharon Walt*
11.30 Length dependant (ca2) sensitivity adds stiffness to the musculo-skeletal system *Dinant Kistemaker, Young Investigator Award Nominee*	11.30 Mechanical effects of a modified point of foot rotation during the speed skating push *Scott Van Horne*	11.30 Visual and precision demands affect hand kinematics during computer work *Gisela Sjogaard, presented by Karen Sogaard*	11.30 Evaluation of 3D lower limb kinematics and kinetics with and without plantar orthopaedic processing *Mathieu Tremblay*
11.45 Passive force enhancement after stretch in single muscle fibers *Dilson Rassier*	11.45 A biomechanical model of a double-poling skier *Joakim Holmberg*	11.45 Separation and summation of EMG recordings by task using video records *Anne Moore*	11.45 Acute effects of wedged orthoses on knee mechanics in patients with knee OA *Robert Butler*
12.00 Is human tendon lengthening a valid indicator of contractile force changes in the in-series muscle? *Constantinos Maganaris*	12.00 The study on the velocity fluctuations in track cycling *Bai Ming Zhang, presented by Danny Chu*	12.00 Finger posture affects joint torque and impedance during tapping *Jack Dennerlein*	12.00 Tibia torsional moments for patients with a total ankle arthroplasty of unconstrained type in comparison with healthy adults during the stance phase of walking *Markus Dettwyler*
12.15 Inter- and extramuscular myofascial force transmission function as a major determinant of muscle force and length range of force exertion *Can Yucesoy*	12.15 Wavelet analysis to compare front suspension fork vibration damping in off-road cycling *Morris Levy*	12.15 Head acceleration, neck muscle function, and performance responses of females to head-supported devices under whole-body vibration *Khalid Barazanji*	12.15 Comparison of ankle joint centre estimates from different joint models determined under non weight-bearing conditions *Antony Hodgson*

12.30 – 1.30pm Lunch — Information Services Building

12.30 – 1.30pm ISB Executive Council Meeting — Castle C

1.30 – 2.30pm **Keynote Presentation** — Castle 2
Computational modelling of the human musculo-skeletal system
Peter Hunter, Auckland, New Zealand
Sponsored by The Maurice and Phyllis Paykel Trust
Co-chairs: Richard Smith and Alan Walmsley

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2.30 – 4.00pm **Session 3 Podium Presentations**

Shoe-Surface Interaction
Castle 1
Chair: Martyn Shorten

2.30
Barefoot, insole and ground pressure measurement comparisons during 5m/s running
Jean Pierre Wilssens

2.45
Foot loading on fundamental movements in football
Takeshi Asai

3.00
Body and limb accelerations during football activities on artificial turfs
Philippe Brachet

3.15
Player/ground interaction on artificial turf
Steven Blackburn

3.30
Finite element analysis of footwear and ground interaction
Moji Moatamedi

Musculoskeletal Models
Castle 2
Chair: Thomas Brown

2.30
Whole body kinematics - An approach to real-time, 3D, interactive study of musculoskeletal function
William Buford, presented by Janet Krevoln

2.45
Mapping neuromuscular inputs onto whole body dynamic stability: an artificial neural network model
Michael Hahn

3.00
Forward dynamics solutions to multi-modal inverse dynamics problems
Behzad Dariush, Young Investigator Award Nominee

3.15
Orientation of the elbow flexion axis determined with radiostereometric analysis
Anton Arndt

3.30
A biomechanical and quantitative model to measure the workspace of the thumb carpometacarpal joint
Li-Chieh Kuo, presented by Fong-Chin Su

Lumbar Spine Biomechanics
Burns 1
Chair: Stuart McGill

2.30
Non-linear finite element analysis of a lumbar muscle spine model for two load cases
Christian Wong

2.45
Development of testing equipment and protocol for trunk extensor fatigability
Renee Frigault

3.00
Ergonomics in construction: an intervention with concrete laborers
Jennifer Hess

3.15
Effect of backrest design on muscle response and pressure
Peter Keir

Locomotion Around Obstacles
Burns 2
Chair: Richard Smith

2.30
Ageing effects upon the biomechanical characteristics of the adaptive gait strategies used to approach and accommodate surface height changes
Noel Lythgo

2.45
The use of leg retraction in obstacle avoidance
Andre Seyfarth

3.00
Ground reaction forces on stairs: Effects of stair inclination and age
Alex Stacoff

3.15
Multiobjective optimal control of stepping over obstacles
Tung-Wu Lu

3.30
Do older women with RA display slip avoidance behaviour when walking in different types of household footwear on typical household surfaces?
Bridget Munro

3.45
Descending stairs, forwards and backwards
Gordon Robertson

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4.00 – 4.30pm Afternoon tea — Information Services Building

4.30 – 5.30pm Poster Session 2 — Information Services Building, Mezanine Level

Thomas Angeli 18
Force-length-relationship for electrically stimulated muscles

Adamantios Arampatzis 20
Difference between resultant joint and measured moments by a dynamometer during isometric contraction at the knee joint

Thambyah Ashvin 36
Are the articular contact stresses in the knee joint during deep flexion critical?

Thambyah Ashvin 37
Mechanical properties of the articular cartilage beneath the meniscus

Cameron Bell 52
A one-dimensional vibrational model of the femoral hip arthroplasty

Joaquin Blaya 44
Comparison of a variable-impedance control to a free and rigid ankle foot orthoses (AFO) in assisting drop foot gait

Alice Bonnefoy 46
Quantification of the gait correction by foot orthosis using a 3D biomechanical model

Jeff Brown 81
Determination of snowboarder versus snowboarder impact configuration using injury biomechanics
Young Investigator Award Nominee

Toni Campbell 50
Conducting polymer fabric strain gauges: A unique biomechanical monitoring device

Jyh-Jong Chang 64
The relationships and constructs of quantitative measures in reach movement

Yen-Ming Chang 96
Effect of different recreational activities on balance control in old people

Chung-Yu Chen 69
Biomechanical effects of the pedicle augmenter for reconstruction of vertebral body

Kristy Clark 56
The effect of vision and foot placement on sitting to standing movement pattern

Michael Cole 71
Loads on the lumbar spine during a work capacity lifting task

Jack Dennerlein 74
Activities of hand intrinsic muscles during a single tap

Nadine Dunk 66
The reliability of upright standing spine postures as a clinical diagnostic tool

Yasushi Enomoto 105
An integrated biomechanical approach to evaluate the distance running technique

Salvatore Federico 29
Novel grip method for the mechanical testing of tendons

Jouni Freund 16
A fatigue and recovery model of muscle

Laurent Frossard 75
Loading applied to the implant of transfemoral amputees fitted with a direct skeletal fixation during walking in a straight line and around a circle

Adrian Gagea 82
Phases theory of muscular effort in biomechanical movement

Pierre Gervais 10
Assessment of four different back handsprings

Margit Gfoehler 11
Development of a biomechanical model of the human body including the upper and the lower extremities used to simulate the motion on a rowing ergometer - the inverse dynamic problem

Margit Gfoehler 12
Muscle behaviour in artificially activated muscle-measurements on neurologically and paraplegic subjects

Ali Gholpayeghani 30
Numerical simulation of pulsatile blood flow with Non-Newtonian behavior through an arterial stenosis

Martine Gilles 5
Sensorial input effects in postural control

Keith Gordon 48
Motor adaptation during walking with a powered ankle foot orthosis
Young Investigator Award Nominee

Michael Hahn 97
Dynamic stability maintained in elderly with conservative antero-posterior strategy

Yuichi Haneda 104
Changes in running velocity and kinetics of the lower limb joints in 100m sprint running

Bernd Heinlein 32
Pre-clinical testing of metal tibial trays for TKA

Phil Hewitt 88
Effect of high and low intensity strength training sessions on the recovering supercompensation curve

Nis Hjortskov 65
The effect of muscle fatigue on the muscular response to a sudden load of the spine

Jeffrey Holmes 58
Prediction of in-vivo soft tissue masses of the lower extremity using segment anthropometric measures and dual photon x-ray absorptiometry
Young Investigator Award Nominee

Sung-Min Hong 24
Evaluation of the changes in bone density over a wide range of growing age

David Howard 9
Optimisation of backpack dynamics using gait simulation

Christian Hye-Knudsen 70
Intra-abdominal pressure in Judo experts exposed to heavy sudden trunk loading

Jennifer Jeansonne 91
The biomechanics of dart throwing: The effect of environmental context on learning

Thomas Jenkyn 14
In vivo measurement of active and passive muscle stress using magnetic resonance elastography (MRE)

Christopher Jones 31
Development of a laser scanning confocal arthroscope for clinical applications
Presented by Jian Ping Wu

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Kimberlee Jordan 94
The influence of grip width and joint angle on force production during precision grasping

Joanna Kaminska 102
Accuracy of steering in older persons

Peter Keir 73
Development of an equation to predict grip force from forearm EMG

Amir Khan 43
Does posterior cruciate ligament retaining or sacrificing affect the movement of prosthetic knees on the knee simulator?

Vivek Khurana 77
Unique pedestrian impact dynamics and trajectory

Sang-Hoo Kim 26
Ultrasonic method for imaging the growth plate

Tetsuya Kimura 85
Mechanomyographic and electromyographic analyses during voluntary and evoked muscle contractions: the amplitude investigations

Yoshinori Konishi 100
On the roles of bi-articular muscles during the jumping movements with various take-off angles

Toshiyuki Kurihara 33
In vivo measurement of human tibialis anterior muscle volume using three dimensional ultrasonography
Young Investigator Award Nominee

Kevin Kwong 54
Measurement of tactile sensation by vibrometric technique

Jeremy LaMothe 23
Age and caloric restriction affect axial and appendicular bone morphology and mechanics differently

Ching-Wen Lee 53
Dynamic effects on interface mechanics of residual limb/prosthetic socket system

Mathieu Lempereur 7
Toward a car ergonomic evaluator: Simulation of accessibility movement

Glen Lichtwark 84
Kinetic analysis of the spontaneous transitions between lifting coordination modes

Ming-Yao Lou 45
Effects of the applied of kinesio-tape and traditional-tape on motor perception

Christopher MacLean 49
The influence of a custom foot orthotic intervention on the lower extremity kinematics and kinetics during running

Takeo Maruyama 21
Ankle joint stiffness and muscle stretching in rhythmical hopping

Silvestro Micera 95
On the modification of upper limb kinematic strategies due to hypnotic susceptibility

Daisuke Migita 2
Computer simulation of normal and abnormal human motion
Young Investigator Award Nominee

Ken Miyashita 38
Kinematic analysis of sprinting on the curve

Rajshree Mootanah 28
An in vitro comparative study of the performance of different commercially available intramedullary femoral plugs during total hip replacement

Tetsuro Muraoka 13
Mechanical properties of Achilles tendon in young males and females

Yoshiho Muraoka 19
Differences in muscle blood volume and muscle architecture among synergistic muscles during static plantarflexion

Mitsuyoshi Murayama 15
Verification of hardness change in fatigued frog muscle using modulated electrical stimulation

Michael Olson 86
Evidence for the induction of spinal ligament creep during cyclic flexion-extension

Andre Plamondon 72
The effect of height and feet position when lifting ITH rods on EMG

Pierre Portero 98
Anticipatory postural adjustments during gait initiation performed by bMD patients

Didier Pradon 63
Experimental protocol to analyze the effects of adjustments on a manual wheelchair: A pilot study

Norbert Praxl 78
Occupant kinematics in vehicle rollover - a simulation study

Francois Prince 59
Assessment of postural control in various auditory surroundings in sighted and blink people
Presented by Nicolas Termoz

Kerry Rambarran 47
The effectiveness of the kinetic wedge foot orthoses modification to improve gait posture
Presented by Gordon Roberston

David Raymond 76
Forensic investigation of lumbar disc injury in an industrial setting
Presented by Vivek Khurana
Young Investigator Award Nominee

Takeshi Saitoh 8
Electrical stimulation-assisted ergometer leg cycle motion

Reiko Sasaki 93
A developmental study of bilateral deficit of hand grip reaction time in children

Markus Schoenpflug 79
Application of a finite element human and dummy model in a side car crash scenario

Markus Schoenpflug 80
Reconstruction of an atypical homicide as an example of successful biomechanical forensic cooperation

Markus Schultheiss 67
Influence of screw cement enhancement on the stability of anterior thoracolumbar fracture stabilization in the presence of dorsal structure injuries

Markus Schultheiss 68
Is 'Hypermobility' a valid interpretation for early degeneration of motion segments next to spinal fusion?

Carol Scovil 3
Analytical approach for evaluation of the sensitivity of a Hill-based muscle model

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Jae Kun Shim 92
Superposition and hierarchical organization of static prehension in human
Young Investigator Award Nominee

Federica Sibella 61
Overweight and obesity in posture: A biomechanical evaluation of postural stability

Rachel Skoss 99
Coordination of axial movement: Influence of speed of the sit-up

James Smeathers 51
Identification of endoprosthetic loosening by mechanical vibration

Mark Smeulders 22
Do overstretched sarcomeres cause muscle contracture in cerebral palsy?

Savvas Stafilidis 17
Strain and elongation of the gastrocnemius muscle tendon and aponeurosis during maximal plantar flexion effort
Presented by Gianpiero DeMonte

Alexander Tatzov 55
Dynamometrical crutch

Zeike Taylor 27
Microstructural modelling of articular cartilage using 3D confocal endoscopy

Nicolas Termoz 60
The influence of auditory surroundings on postural stability in sighted and blind people

Tomasz Tokarski 101
Differences in muscle force in older persons

Yuli Toshev 4
Estimation of body segment mass-inertial parameters using 3D biomechanical model

Yusuke Uchida 89
Neural control of femoral extensors exerting isometric ballistic knee extension force

Radivoj Vasiljev 90
How D central motor strategies based on different motor tasks affect on kinematic reproducibility of learned fastest terminated movement

Samuel Ward 35
Error associated with MRI based measurements of patellofemoral alignment: The influence of femoral motion

Jonathan Wheat 62
Joint coordination variability during over ground and treadmill running

Tim Wrigley 1
A MATLAB toolbox for visualization of human musculoskeletal models

Chan-Tsung Yang 42
A biomechanical evaluation of the improved modular knee prosthesis
Presented by Cheng-Kung Cheng
Young Investigator Award Nominee

Hyunjin Yun 25
Automatic detection method of the region of interest in the measurement of bone mineral density by ultrasound imaging
Presented by Yang-sun, Jang

Michelle Zec 34
Ligament recovery from creep strain is hindered by changes in water content

7.30pm Congress Gala Dinner The Dunedin Centre

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Friday 11 July 2003

7.45 – 8.45am Student Breakfast Session (optional) — The Staff Club
Sponsored by Massey University Sport and Life Sciences
Chair: Melanie Bussey

8.00am Registration Desk opens — Information Services Building

9.00 – 10.00am **Keynote Presentation** — Castle 2
Why does Tai Chi favourably impact on fall related events in older adults? Exploring findings and mechanisms
Steven Wolf, Alanta, USA
Sponsored by ACC thinksafe
Co-chairs: Mary Rodgers and Peter Milburn

10.00 – 11.00am **Session 1 Podium Presentations**

Gymnastics and Dance
Castle 1
Chair: Patria Hume

10.00
Adjusting for perturbations to a layout somersault in tumbling
Mark King

10.15
Biomechanical predictors of female gymnastics performance
Bruce Elliott

10.30
Kinematics of the lumbar spine during classic ballet postures
Veronique Feipel

Knee Rehabilitation
Castle 2
Chair: Richard Newsham-West

10.00
Quadriceps control - A key factor in coping with anterior cruciate ligament deficiency
Glenn Williams, presented by Thomas Buchanan

10.15
Knee musculoskeletal system torque recovery after an ACL stg surgery
Serge Colson

10.30
Training to increase muscular support to reduce the risk of anterior cruciate ligament injury
Jodie Cochrane

Spine Models I
Burns 1
Chair: Peter Milburn

10.00
Fast stereo-radiographic 3D-reconstruction of the spine using a geometric and statistic based model
Vincent Pomero presented by David Mitton

10.15
Fe simulation of the human neck submitted to lateral and oblique impact: relationship between cervical spine curvature and risk of injury
Bertrand Frechede, presented by David Mitton

10.30
Human biodynamics engine: The full spine simulator
Vladimir Ivancevic

10.45
A new protocol for cervical spine clinical and biomechanical evaluation using motion capture techniques during unconstrained paced head rotations
Nicola Petrone

Musculoskeletal Models
Burns 2
Chair: David Lloyd

10.00
Using finite-element analysis to estimate the strain-rate of arm impact in children
Peter Davidson

10.15
A dynamic approach to modeling muscle-tendon paths
Allan Carman

10.30
Musculoskeletal models need hamstring moment arms scaled for individual subjects
Peter Sinclair

10.45
The relationship between mechanical cost functions and muscle oxygen consumption
Marit Praagman

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11.00 – 11.30am Morning tea — Information Services Building

11.30 – 12.30pm **Session 2 Podium Presentations**

Biomechanics of Throwing
Castle 1
Chair: Shinji Sakurai

11.30
Analysis of golf swing optimisation models
Wen-Tzu Tang

11.45
Biomechanical analysis of different windup techniques during softball pitching
Li-I Wang

12.00
Comparison between isokinetic strength and applied Torque in the upper extremity during pitching by collegiate baseball pitchers
Chien-Ming Chen

12.15
Ball speed generation by fast bowlers in cricket
Rene Ferdinands, Young Investigator Award Nominee

Methodology in Rehabilitation
Castle 2
Chair: John Sullivan

11.30
Use of vibration to assess the integrity of the femoral hip arthroplasty
Cameron Bell

11.45
Electrogonimonetry as a clinical tool to measure quality of movement after stroke
Sian Jenkins

12.00
Analysis of walking stability using accelerometers
Yuriko Tsuruoka

12.15
Use of surface sensors to represent bony segments to measure thumb carpometacarpal joint motion
Fong-Chin Su

Spine Models II
Burns 1
Chair: Vaughan Kippers

11.30
Biomechanical analysis of spinal instruments
Yoshimori Kiriyama

11.45
Dual-energy imaging and mechanical properties of human lumbar intervertebral disc
Sophie Campana

12.00
A new thoracoscopic implantable stabilization system for thoracolumbar fracture treatment - biomechanical testing surgical technique and clinical outcome
Markus Schultheiss

Simulation in Surgery
Burns 2
Chair: Ton van den Bogert

11.30
Elasticity of living abdominal wall in minimal access surgery
Chengli Song

11.45
Biomechanical modelling for computer-assisted surgical planning
Edward Chadwick

12.00
The effect of body movement on coronary blood flow in the presence of partial coronary obstruction: A modelling study
Alberto Avolio

12.15
On the measurement of strain in the femoral artery and bypass graft
Reena Cole

12.30 – 1.30pm Lunch — Information Services Building

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1.30 – 2.45pm **Session 3 Podium Presentations**

Racquet Sport Biomechanics	**Gait Rehabilitation**	**Forensic Biomechanics**	**Simulation of Everyday Movements**
Castle 1	Castle 2	Burns 1	Burns 2
Chair: Bruce Elliott	*Chair: Wendy Gilleard*	*Chair: Jeffrey Wheeler*	*Chair: Richard Smith*
1.30 The damping ration of tennis racket made by high strength carbon fiber *Jinn-Yen Chiang*	1.30 Weight-bearing speed of movement: The effects of a high-velocity resistance training program in older adults *Brandi Row*	1.30 Lateral tibial plateau fracture from a stair descent misstep *Vivek Khurana*	1.30 A multisegment computer simulation of human normal gait *Lih Duen Neo*
1.45 The vibrational analysis of various tennis rackets material and fiber angles *Ti-Yu Chen*	1.45 A computational model for monolimb design *Winson Lee*	1.45 Injury mitigation produced by protective pole padding on ski terrain *Jeff Brown*	1.45 Varus-valgus stiffness model of the knee identified by a robot-based approach *Martin Frey*
2.00 Racket arm mechanism during soft-tennis smash in match *Hirofumi Ida*	2.00 Understanding the effect of an ankle foot brace locked in plantarflexion on limb stability and forward progression during walking *Mukul Talaty*	2.00 Biomechanical and forensic aspects of the human punch *Stefan Bremer*	2.00 Evaluation of lower extremity musculoskeletal model using sit-to-stand movement *Mark Thompson*
2.15 Angular momentum of upper extremity in tennis volley *Lin-Hwa Wang*	2.15 Therapeutic footwear for prevention of ulcer relapses in high risk diabetics *Saraswathy Gnanasundaram, presented by Gautham Gopalakrishna*	2.15 Determination of biomechanical loading of the lumbar spine by computer simulation *Eric Schuller*	2.15 Lower limb loading during use of inflatable rescue boats by surf lifesavers - Computer simulation and experimental testing *Timothy Barker*
2.30 The biomechanical assessment of tennis surface cushioning properties during a tennis-specific movement *Victoria Stiles*		2.30 Round table discussion *Jeffrey Wheeler*	

2.45 – 3.15pm Afternoon tea — Information Services Building

3.15 – 3.45pm President's Address — Castle 2

3.45 – 4.45pm Closing Ceremony — Castle 2

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APPENDIX IA03

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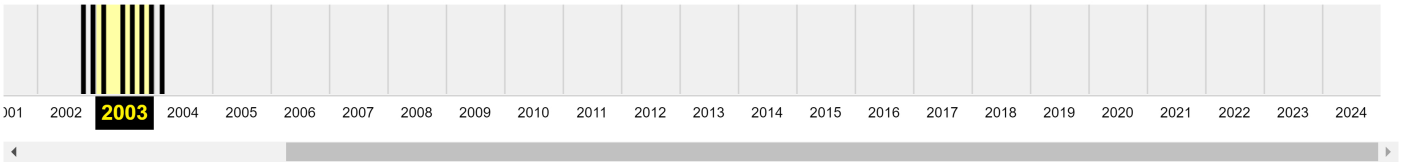
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Contributor	Milburn, Peter, Ph. D. Wilson, Barry David Yanai, Toshimasa. University of Otago.
Varying Form of Title	Human body in motion. International Society of Biomechanics Nineteenth Congress.
Author/Title Info	editors, Peter Milburn, Barry Wilson, Toshimasa Yanai.
Creation Date	2003?
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