Sample Annotated RETENTION Portfolio – John Colton (Physics)

Note: This is a sample electronic retention file generated from UW-L's Digital Measures program on the work of John Colton who was a successful candidate for retention for several years. He gave the Provost's Office his permission to use his work for a mock-up of an electronic version.

Please note that this is an annotated portfolio and notes are indicated in side balloons or commentary is shown in blue ink. All the activities indicated in this report below were entered into Digital Measures; no activities have been included by editing this document. Because this is a sample, all of the information that should be here may not be, but there are samples of each type of material a candidate could include.

To open the hyperlinks, hold down 'ctrl' while clicking on the link and be patient. A computer with a high speed internet is necessary. Click "ok" or "continue" to any security warnings – the hyperlinked file will open in a new window.

RETENTION REPORT - INDIVIDUAL
(August 23, 2003 - October 12, 2006)

Comment [1]: Drawing your report Under "run reports" choose "Retention Report – Individual." For your start date, enter your date of hire at UW-L. The end date is the date the file goes to your department. Choose "letter" and Word and generate the report. If you edit this document it only changes this document not the information in Digital Measures.

Comment [2]: Since reviewers are interested in the professional development of a faculty member, the report is drawn from the date of hire. Often times departments will also want to carefully look at the work from the past academic year.

I. GENERAL INFORMATION

Faculty Name: John S. Colton **Department:** Physics & Astronomy

Education

Ph D, University of California, Berkeley, Physics (Condensed Matter). (2000).

MA, University of California, Berkeley, Physics. (1997).

BS, Brigham Young University, Physics and Mathematics. (1994).

Retention Narrative (if applicable)

Download File (colton.john/retention_tenure/colton retention narrative sample-1.doc)

Comment [3]: This would only be included if a department requires or recommends a narrative.

I. TEACHING

A. Teaching Schedule

Fall 2006

Course & Section	Title	New Course Prep.	New Format for Existing Course	Enrollment	Number of Credit Hours	Delivery Mode
PHY - Physics 103-L52	Fundamental Physics I	No	No	26	0	Laboratory
PHY - Physics 335-1	Electronics	No	No	11	4	Lecture/Lab
Download File (colton.john/schteach/phy 335 f 2006 electronics syllabus-1.doc)						
PHY - Physics 335-L51	Electronics - Lab	No	No	11	0	Laboratory
PHY - Physics 432-1	Advanced Electrodynamics	No	No	3	3	Lecture/Lab
Download File (colton.john/schteach/physics 432 advanced electrodynamics syllabus-1.doc)						
PHY - Physics 498-7	Physics and Astronomy Research	No	No	1	1	Independent Study
PHY - Physics 498-8	Physics and Astronomy Research	No	No	1	2	Independent Study

Comment [4]: You attach your syllabi using the 'upload" button associated with individual courses

Comment [5]: The material shown in blue is generated and uploaded for you. The other fields you must select the options by editing the specific course.

Spring 2006

Course & Section	Title	New Course Prep.	New Format for Existing Course	Enrollment	Number of Credit Hours	Delivery Mode
PHY - Physics 332-1	Electrodynamics	No	No	11	3	Classroom
PHY - Physics 334-1	Circuits	Yes	No	23	3	Classroom
PHY - Physics 334-L51	Circuits Lab	Yes	No	23	0	Laboratory
PHY - Physics 343-1	Thermodynamics	No	No	25	3	Classroom
PHY - Physics 498-4	Physics Research	No	No	1	2	Laboratory
PHY - Physics 498-8	Physics Research	No	No	2	1	Independent Study

Comment [6]: In the Digital Measures system, you are able to add assessment evidence by course. This information is not drawn automatically for promotion or retention reports. It is included in annual reports. You may wish to use the information you have on your courses to write an assessment report to upload as a teaching evidence link.

Fall 2005

Course & Section	Title	New Course Prep.	New Format for Existing Course	Enrollment	Number of Credit Hours	Delivery Mode
PHY - Physics 311-1	Experimental Physics Lab	No	No	15	2	Laboratory
PHY - Physics 311-2	Experimental Physics Lab	No	No	24	2	Hybrid
PHY - Physics 335-1	Electronics	No	No	22	4	Classroom
PHY - Physics 335-L51	Electronics Lab	No	No	22	0	Laboratory
PHY - Physics 432-1	Advanced Electrodynamics	Yes	No	5	3	Classroom

Summer 2005

Course & Section	Title	New Course Prep.	New Format for Existing Course	Enrollment	Number of Credit Hours	Delivery Mode
PHY - Physics 498-102	PHYSICS AND ASTRONOMY RESEARCH	No	No	1	2	Independent Study

Comment [7]: Summer course data is loaded at the same time as Fall course data – mid October.

Spring 2005

Comment [8]: J-term and Spring course data is loaded in March.

Comment [9]: If one of your courses is missing – your best bet is to add it by hand.

Course & Section	Title	New Course Prep.	New Format for Existing Course	Enrollment	Number of Credit Hours	Delivery Mode
PHY - Physics 104-L53	Fundamental Physics Lab	No	No	20	0	Laboratory
PHY - Physics 104-L58	Fundamental Physics Lab	No	No	12	0	Laboratory
PHY - Physics 332-1	Electrodynamics	Yes		18	3	Classroom
PHY - Physics 343-1	Thermodynamics	No	No	20	3	Classroom
PHY - Physics 498-4	Physics Research	No	No	1	2	Independent Study

Fall 2004

Course & Section	Title	New Course Prep.	New Format for Existing Course	Enrollment	Number of Credit Hours	Delivery Mode
PHY - Physics 103-L59	Fundamental Physics Lab	No	No	23	0	Laboratory
PHY - Physics 103-L60	Fundamental Physics Lab	No	No	26	0	Laboratory
PHY - Physics 335-1	Electronics	No	No	24	4	Classroom
PHY - Physics 335-L51	Electronics Lab	No	No	24	0	Laboratory

Spring 2004

Course & Section	Title	New Course Prep.	New Format for Existing Course	Enrollment	Number of Credit Hours	Delivery Mode
PHY - Physics 104-L51	Fundamental Physics Lab	Yes		26	0	Laboratory
PHY - Physics 104-L52	Fundamental Physics Lab	Yes		26	0	Laboratory
PHY - Physics 104-L53	Fundamental Physics Lab	Yes		28	0	Laboratory
PHY - Physics 343-1	Thermodynamics	Yes		21	3	Classroom
PHY - Physics 476-L51	Advanced Optics Lab	Yes		5	0	Laboratory

Fall 2003

Course & Section	Title	New Course	New Format for	Enrollment	Number of Credit	Delivery Mode

		Prep.	Existing Course		Hours	
PHY - Physics 103-L56	Fundamental Physics Lab	Yes	Yes	25	0	Laboratory
PHY - Physics 103-L59	Fundamental Physics Lab	Yes	Yes	25	0	Laboratory
PHY - Physics 335-1	Electronics	Yes		18	4	Classroom
PHY - Physics 335-L51	Electronics Lab	Yes	Yes	7	0	Laboratory
PHY - Physics 335-L52	Electronics Lab	Yes	Yes	11	0	Laboratory

B. Additional Teaching Evidence

Classroom observation by a peer - Sudhakaran 4-16-2004. Physics 476.
Download File (colton.john/retention_tenure/colton retention teaching evidence sample-1.pdf)

Comment [10]: Your department may provide some guidance regarding "how many?" hyperlinks to evidence would be appropriate. Promotion guidelines allow for 10 (for multiple years of work) + syllabi.

III. SCHOLARSHIP

A. Intellectual Contributions

Published and Accepted

1. Conference Proceeding

Colton, J. S., Wienkes, L. R., Heeb, M. E. (2005). *Spin lifetime measurements in semiconductors*. Proceedings of the 15th Annual Wisconsin Space Conference.

Type of Review	Acceptance Rate	Author Workload	Author Ordering	Audience of Circulation
Editorial Board	%	Colton, John S. Wienkes, L R. Heeb, M E.	First author major contributor	State

Download File (colton.john/intellcont/jc-esl-1.pdf)

2. Journal Article, Academic Journal

Colton, J. S., Kennedy, T. A., Bracker, A. S., Gammon, D., Miller, J. B. (2004). Dependence of optically oriented and detected electron spin resonance on donor concentration in n-GaAs. *Solid State Communications, 132*, 613.

Type of Review	Acceptance Rate	Author Workload	Author Ordering	Audience of Circulation
Peer-reviewed	%	Colton, John S. Kennedy, T A. Bracker, A S. Gammon, D Miller, J B.	First author major contributor	International

Download File (colton.john/intellcont/jc-doo-1.pdf)

Colton, J. S., Kennedy, T. A., Bracker, A. S., Gammon, D. (2004). Microsecond spin-flip times in n-GaAs measured by time resolved polarization of photoluminescence. *Physical Review B, 69*, 121307(R).

Type of Review	Acceptance Rate	Author Workload	Author Ordering	Audience of Circulation
Peer-reviewed	%	Colton, John S. Kennedy, T A. Bracker, A S. Gammon, D	First author major contributor	International

Download File (colton.john/intellcont/jc-mst-1.pdf)

Kennedy, T. A., Colton, J. S., Butler, J. E., Linares, R. C., Doering, P. J. (2003). Long Coherence Times at 300K for Nitrogen-Vacancy Center Spins in Diamond Grown by Chemical Vapor Deposition. *Applied Physics Letters, 83*, 4190.

Type of Review	Acceptance Rate	Author Workload	Author Ordering	Audience of Circulation
Peer-reviewed	%	Kennedy, T A. Colton, John S. Butler, J E. Linares, R C. Doering, P J.	First author major contributor	International

Download File (colton.john/intellcont/jc-lct-1.pdf)

Colton, J. S., Kennedy, T. A., Bracker, A. S., Gammon, D., Miller, J. B. (2003). Optically oriented and detected electron spin resonance in a lightly doped n-GaAs layer. *Physical Review B, 67*, 165315.

Type of Review	Acceptance Rate	Author Workload	Author Ordering	Audience of Circulation
Peer-reviewed	%	Colton, John S. Kennedy, T A. Bracker, A S. Gammon, D Miller, J B.	First author major contributor	International

Download File (colton.john/intellcont/jc-doo-2.pdf)

Comment [11]: Candidates in the Fine Arts may link to any "type" of file. **All uploads are restricted to no more than 10 MB per upload.**

Works in Progress

1. **Journal Article, Academic Journal**

Colton, J. S., Heeb, M. E., Schroeder, P., Stokes, A., Wienkes, L. R. (2007). Anamalous magnetic field dependence of the T1 spin lifetime in a lightly-doped GaAs sample. *Physical Review B, 75*, 205201.

Comment [12]: Although this is not a typo – if it were, you need to correct it in Digital Measures rather than here to make the change permanent.

Type of Review	Acceptance Rate	Author Ordering	Audience of Circulation
Blind-Reviewed	%	Colton, John S. Heeb, M E. Schroeder, P Stokes, A Wienkes, L R.	International

Download File (colton.john/intellcont/jc-amf-1.pdf)

Other Scholarly Activities

1. **Paper presented at academic conference**

Colton, J. S. (Presenter & Author), Wienkes, L. R. (Author Only), Heeb, M. E. (Author Only), Wisconsin Space Conference, Wisconsin Space Grant Consortium, Madison, WI, "Electron spin lifetime measurements in semiconductors".

Meeting Type	Scope	Format of Presentation	Published in Proceedings?	Refereed Proceedings?	Invited or Accepted	Published Elsewhere?
Non-Academic	State	Oral Presentation	Yes	No	Accepted	

Colton, J. S., APS March Meeting, American Physical Society, Baltimore, MD, "Electron T1 spin lifetimes in a 1 x 10^15 cm^-3 n-GaAs sample". (March 2006).

Meeting Type	Scope	Format of Presentation	Published in Proceedings?	Refereed Proceedings?	Invited or Accepted	Published Elsewhere?
Academic	International	Oral Presentation			Accepted	

Colton, J. S., APS March Meeting, American Physical Society, Los Angeles, CA, "Microsecond spin-flip times for localized donors in GaAs". (March 2005).

Meeting Type	Scope	Format of Presentation	Published in Proceedings?	Refereed Proceedings?	Invited or Accepted	Published Elsewhere?
Academic	International	Oral Presentation			Invited	

Download File (colton.john/present/jc-aps-1.pdf)

Kennedy, T. A. (Presenter & Author), Colton, J. S. (Author Only), Scheibner, M. (Author Only), Bracker, A. S. (Author Only), Gammon, D. (Author Only), DARPA QUIST meeting, DARPA, Chicago, IL, "Spin lifetimes and excitation mechanisms in lightly n-type GaAs". (May 2004).

Meeting Type	Scope	Format of Presentation	Published in Proceedings?	Refereed Proceedings?	Invited or Accepted	Published Elsewhere?
Non-Academic	National	Oral Presentation			Accepted	

Kennedy, T. A. (Presenter & Author), Colton, J. S. (Author Only), Scheibner, M. (Author Only), Bracker, A. S. (Author Only), Gammon, D. (Author Only), APS March Meeting, American Physical Society, Montreal, Canada, "Spin dephasing in lightly doped GaAs". (March 2004).

Meeting Type	Scope	Format of Presentation	Published in Proceedings?	Refereed Proceedings?	Invited or Accepted	Published Elsewhere?
Academic	International	Oral Presentation			Accepted	

Colton, J. S. (Presenter & Author), Kennedy, T. A. (Author Only), Bracker, A. S. (Author Only), Gammon, D. (Author Only), APS March Meeting, American Physical Society, Montreal, Canada, "Spin relaxation and microsecond spin-flip times in lightly doped GaAs". (March 2004).

Meeting Type	Scope	Format of Presentation	Published in Proceedings?	Refereed Proceedings?	Invited or Accepted	Published Elsewhere?
Academic	International	Oral Presentation			Accepted	

Kennedy, T. A. (Presenter & Author), Colton, J. S. (Author Only), Butler, J. E. (Author Only), Linares, R. (Author Only), Doering, P. (Author Only), Spintech II, International Conference and School on Semiconductor Spintronics and Quantum Information Technology, Brugge, Belgium, "Room-Temperature Operation of the NV-Center Qubit in CVD Diamond". (August 2003).

Meeting Type	Scope	Format of Presentation	Published in Proceedings?	Refereed Proceedings?	Invited or Accepted	Published Elsewhere?
Academic	International	Oral Presentation			Accepted	

Colton, J. S. (Author Only), Kennedy, T. A. (Presenter & Author), Bracker, A. S. (Author Only), Gammon, D. (Author Only), Miller, J. B. (Author Only), Spintech II, International Conference and School on Semiconductor Spintronics and Quantum Information Technology, Brugge, Belgium, "Spin resonance and spin-flip times in n-GaAs layers". (August 2003).

Meeting Type	Scope	Format of Presentation	Published in Proceedings?	Refereed Proceedings?	Invited or Accepted	Published Elsewhere?
Academic	International	Oral Presentation			Accepted	

Contracts, Grants, and Sponsored Research

Colton, J. S., External Grant, "RUI: T2 measurements in GaAs, AlGaAs, and InGaAs layers and quantum wells via optically detected electron spin echo", National Science Foundation, Funded, $99,074.00. (sub: October 2004, start: June 2005, end: May 2008).

Colton, J. S., External Grant, "T2 spin lifetime measurements in GaAs, AlGaAs, and InGaAs layers and quantum wells via optically detected electron spin echo", American Chemical Society Petroleum Research Fund, Funded, $35,000.00. (sub: December 2004, start: September 2005, end: August 2007).

Colton, J. S., External Grant, "MRI: Acquisition of an optically detected electron spin echo system for T2 measurements in GaAs, AlGaAs, and InGaAs layers and quantum wells", National Science Foundation, Funded, $307,907.00, colton.john/congrant_research/jc-esa-4.pdf. (sub: January 2004, start: August 2004, end: July 2007).
Download File (colton.john/congrant_research/jc-esa-4.pdf)

Colton, J. S., External Grant, "T2 measurements in GaAs, AlGaAs, and InGaAs layers and quantum wells via optically detected electron spin echo", Research Corporation, Funded, $31,218.00. (sub: November 2004, start: July 2005, end: June 2007).

Colton, J. S., External Grant, "Electron spin T1 measurements in GaAs and related materials", Wisconsin Space Grant Consortium, Funded, $9,799.00. (sub: February 2004, start: June 2004, end: May 2005).

Colton, J. S., UW-L Grant, "Echo T2 Measurements in GaAs Using Pulsed Light and Microwaves", Funded, $6,712.00. (sub: October 2003, start: June 2004, end: August 2004).

Colton, J. S., External Grant, "RUI: T1 measurements in GaAs, AlGaAs, and InGaAs layers and quantum wells via time resolved polarization spectroscopy", National Science Foundation, Not Funded. (sub: December 2003).

Colton, J. S., External Grant, "Hanle Effect Measurements of T2* in GaAs-related Semiconductor Heterostructures", Research Corporation, Not Funded. (sub: November 2003).

Student Research

1. **Undergraduate Research**

Wulff, Ashley, Physics & Astronomy, "Development of body-angle sensor with audio read-out," Completed.
Role: Faculty advisor

Heeb, Michael, Physics & Astronomy, "Study of electron spin in semiconductors," In-Process.
Role: Faculty advisor/principle research investigator
Significant Student Involvement: Mike has helped primarily with equipment set-up and data collection.

B. Additional Scholarship Evidence

Comment [13]: Your department may provide some guidance regarding “how many?” hyperlinks to evidence would be appropriate. Promotion guidelines allow for 10 (for multiple years of work) – the vast majority of which are likely to be associated with individual scholarly activities such as those shown above.

IV. SERVICE

A. Service

Department Service

Meeting Secretary. (September 2005 - May 2007)
Take notes and prepare minutes of department meetings

Assessment Committee, Member. (September 2004 - May 2007)
Assessment of the program and courses of the Physics Department.

Faculty Search & Screen, Member. (September 2004 - May 2006)
Screen applications and hire new physics faculty member.

Library Representative. (September 2004 - May 2006)
Order and review library materials in the area of physics.

103/104 Lab Coordinator. (September 2004 - May 2005)
To coordinate intro physics labs.

Strategic Planning Committee, Member. (September 2004 - May 2005)
To review the implementation of past suggestions made by prior planning committees, to develop short and long-term goals for the Department, review, to assess and modify existing course and program descriptions & offerings, etc.

Distinguished Lecture Series, Member. (September 2003 - May 2005)
Recruit and host annual talk by Physics Nobel Laureate.

Freshman Registration. (May 2004 - June 2004)

To assist with Freshman registration of physics majors.

Freshman Scholarship Committee, Member. (September 2003 - May 2004)
To assign scholarships and internships to incoming physics freshmen.

College Service

University Service

1. **Committee Involvement**

Scholarship & Awards, Secretary in 2005-6; Chair in 2006-7. (September 2004 - May 2007)
To rank candidates & assign scholarships to incoming freshman; to rank candidates and assign Murphy Awards to graduating seniors. Secretarial duties additionally involved taking & typing meeting minutes, and coordinating the ranking of candidates.

School of Education Content Liaison Committee, Member. (September 2004 - May 2007)
To give input on content area (e.g. Physics) concerns & needs to the School of Education.

Professional and Community Service

1. **Consulting/board of directors**

Public/Community, La Crosse Chamber Chorale, approximately 30 hours spent for the year. (August 2004 - June 2006).
Member of the Board of Directors of the La Crosse Chamber Chorale; on the Artistic Committee

2. **Civic or community service**

Public/Community, La Crosse Chamber Chorale, Board of Directors of an Organization, Member, approximately 30 hours spent for the year, Pro Bono, Local. (August 2004 - June 2006).
Member of the Board of Directors of the La Crosse Chamber Chorale; on the Artistic Committee

Public/Community, Soapbox in the Park, approximately 5 hours spent for the year, Pro Bono, Local. (June 16, 2006).
Gave a community lecture at "Soapbox in the Park" entitled, "Nuclear energy, weapons, and fuel" (Jun 2006)

Public/Community, La Crosse Chamber Chorale, Singer, approximately 160 hours spent for the year, Local. (September 2003 - May 2006).
Singer (bass) in a community choir, the La Crosse Chamber Chorale

Public/Community, Kid's College, approximately 4 hours spent for the year, Compensated, Local. (March 2006).
Ran a session of Kid's College for elementary school kids: "Exciting Optics".

Public/Community, Girls in Science, approximately 4 hours spent for the year, Local. (June 2005).
Taught "Girls in Science" program--lecture & demos on physics.

Public/Community, La Crosse School District, approximately 4 hours spent for the year, Pro Bono, Local. (May 2005).
Assisted with elementary school "Mathletics" competition.

Public/Community, Martin O'Brien, Job Shadowee, approximately 8 hours spent for the year, Pro Bono, Local. (November 2004).
Served as a job shadowee for high school student Martin O'Brien, as part of the high school career education.

Public/Community, Webelos, approximately 4 hours spent for the year, Pro Bono, Local. (November 2004).
Taught a local Webelos Scout unit lecture/demo on physics.

Public/Community, La Crescent High School, Reviewer, approximately 6 hours spent for the year, Pro Bono, Local. (January 2004).
Served as a judge for the La Crescent High School science fair.

3. Other professional and community service

Professional, WSGC, Reviewer, approximately 5 hours spent for the year, No, neither, Pro Bono, State. (January 2005 - May 2006).
Reviewing proposals for the Wisconsin Space Grant Consortium.

Professional, Adopt a Scientist, approximately 4 hours spent for the year, Pro Bono, National. (November 2005).
Participated in the American Institute of Physics "Adopt a Scientist" program--answering career questions for highschoolers.

Professional, American Physical Society, Reviewer, approximately 5 hours spent for the year, Pro Bono, National. (July 2005).
Evaluator for the high school "World Year of Physics" student talent search.

Professional, McGraw Hill, Reviewer, approximately 5 hours spent for the year, Compensated, International. (February 2005).
Reviewed new edition of textbook: Cengel & Boles, "Thermodynamics: An Engineering Approach," 5th edition

Service Presentations

Professional Memberships

American Physical Society, International. (1999 - 2006).
The major professional society of physicists with about 43,000 members worldwide.

Grants

B. Additional Service Evidence

Comment [14]: Your department may provide some guidance regarding “how many?” hyperlinks to evidence would be appropriate. Promotion guidelines allow for 10 (for multiple years of work).

Flyer associated with the distinguished lecture of Nobel Physicist Dr. Robert Richardson. 2003

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V. ADDITIONAL INFORMATION

A. Awards and Honors

Teaching, Wisconsin Teaching Fellow, UW-L. (2006).

Teaching, SAPA Most Accessible Award Nominee, Students Advocating Potential Ability, UW-L. (March 2006).

B. Faculty Development

Service, Workshop, "Assessing and Enhancing Student Learning in the Department or Program: Feasible, Practical, and Simple Strategies", UW System, Baraboo, WI, United States, No. (March 10, 2006).

Teaching, Workshop, "New Faculty Workshop", American Physical Society/American Institute of Physics/American Association of Physics Teachers, College Park, MD, United States, No. (November 2004).

Scholarship/Research, Attended Conference, "CUR Conference", Council on Undergraduate Research, La Crosse, WI, United States, No. (June 2004).

Teaching, Workshop, "Demonstrating Impact", UWS Women and Science Program, Wisconsin Dells, WI, United States, No. (May 2004).

Teaching, "Opening Workshop for New UW System STEM Educators", UWS Women in Science Committee, Wisconsin Dells, WI, United States, No. (October 2003).

C. Pre UW-L CV Link

Comment [15]: Document (e.g., CV), if applicable, indicating applicable teaching, scholarship, and service at other institutes of higher learning prior to starting at UW-L. For RETENTION, activities since date of hire at UW-L are required to be entered into Digital Measures.

*NOTE: Once you have edited this document, select "save as" and save as a *.html format rather than the default which is *. rtf – name the document with your surname, department, rank and type of report "e.g., Colton-Physics-Fall 2006 Retention Report.html." Submit this report to your department chair or departmental personnel committee in the manner established within your department.*