

## Promotion and Tenure Dossier

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### IV. Teaching and Advising Effectiveness

**A.** Chronological list of courses taught since the last promotion or the date of appointment to Virginia Tech

Term	Course Name	Course Number	Class Size	Number of Respondents	SPOI Overall Score	Credits
Spring 2010	Introduction to Music Technology	MUS 2054 CRN 14562	31	Pending	Pending	3
Spring 2010	Inst. Ensemble Music (L2Ork)	MUS 3314 CRN 18503	13	Pending	Pending	1
Spring 2010	Computer Music & Multimedia Design II	MUS 3066 CRN 17284	8	Pending	Pending	3
Fall 2009	Computer Music & Multimedia Design I	MUS 3065 CRN 97629	14	13	3.9	3
Fall 2009	TS:DISIS Laptop Orchestra (L2Ork)	MUS 4124 CRN 97902	1	1	4.0	3
Fall 2009	Inst. Ensemble Music (L2Ork)	MUS 3314 CRN 97901	8	8	4.0	1
Spring 2009	Computer Music & Multimedia Design II	MUS 4124 CRN 17557	9	6	4.0	3
Spring 2009	Introduction to Music Technology	MUS 2054 CRN 14489	21	16	3.6	3
Fall 2008	Computer Music & Multimedia Design I	MUS 4124 CRN 94559	13	11	3.7	3
Fall 2008	Class Applied Piano	MUS 2214 CRN 94486	6	5	4.0	1
Spring 2008	Adv Ind Composition	MUS 4734 CRN 17856	2	2	4.0	3
Spring 2008	Introduction to Music Technology	MUS 2054 CRN 14327	31	19	3.3	3
Spring 2008	Computer Music & Multimedia Design II	MUS 2984 CRN 17616	3	N/A	N/A	3
Fall 2007	Independent Study (MUS 2054)	MUS 4974 CRN 17333	2	1	4.0	3
Fall 2007	Class Applied Piano	MUS 2214 CRN 94247	11	11	4.0	1
Fall 2007	Soundtrack & Effects Composition	MUS 4984 CRN 97618	5	5	4.0	3

Fall 2007	Computer Music & Multimedia Design I	MUS 4124 CRN 94324	7	5	3.8	3
Spring 2007	Class Applied Piano	MUS 2214 CRN 14256	13	7	4.0	1
Spring 2007	Introduction to Music Technology	MUS 2054 CRN 14253	29	9*	4.0	3
Spring 2007	Computer Music & Multimedia Design II	MUS 4984 CRN 17228	5	5	4.0	3
Fall 2006	Independent Study (MUS 2054)	MUS 4974 CRN 17333	1	N/A	N/A	3
Fall 2006	Computer Music & Multimedia Design I	MUS 4124 CRN 96542	7	7	3.8	3
Fall 2006	Class Applied Piano	MUS 2214 CRN 94255	11	10	3.9	1
Spring 2006	Introduction to Music Technology	MUS 2054 CRN 14002	41	31	3.5	3
Spring 2006	Independent Study (Adv Ind Comp)	MUS 4974 CRN 17333	1	1	4.0	3

**C. Completed theses, dissertations, other graduate degree projects, major undergraduate research projects, and honors theses directed**

- April 20-25, 2010: Organized Virginia Tech (VT) *Linux Laptop Orchestra* (L2Ork) Midwest tour with stops in Cincinnati (OH), Carbondale (IL), and Indianapolis (IN). Secured necessary funds to cover the cost of travel, lodging, and meals for 12 L2Ork student members (Chelsea Crane, Christopher Cummins, Jared Denniston, Zachary Gulsby, Miles Mabry, Michael Matthews, Ian Philips, Steven Querry, Joseph Scheiner, Philip Seward, Elizabeth Ullrich, and Adam Wirdzek).
- February-May 2010: Arranged for a partnership between *Linux Laptop Orchestra* (L2Ork) and the *Boys & Girls Club* of Roanoke, VA for the purpose of producing a satellite laptop orchestra for the 5<sup>th</sup> graders and integrating them in the L2Ork spring 2010 performance. The initiative was sponsored by grants from *21<sup>st</sup> Century* and *Bank of America* (through *Boys & Girls Club*) in the amount of \$20,000. The funds were used for three paid undergraduate researcher positions (Miles Mabry, Steven Querry, Jonathan Utt) and satellite orchestra equipment.
- Fall 2009: Artistic advisor for Virginia Tech's Theatre Workshop in Science, Technology and Society's (TWISTS) *Living Darwin* theatrical play mentoring graduate student composer Paul Schreiner, Blacksburg, VA.
- Summer 2009: Hired three undergraduate student researchers (Bradley Harmon, Michael Hawthorne, and Bryan Lawson) for the *Linux Laptop Orchestra* (L2Ork) summer research project (for additional info on the project please consult section [V.C.](#)), advised two undergraduate student researchers (Michael Matthews and Maya Renfro) whose positions were sponsored through the Department of Computer Science's National

\* Unusually low response number due to 4/16/07 tragedy that has rendered attendance for the remainder of the spring 2007 semester optional.

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- Science Foundation (NSF) sponsored Research Experience for Undergraduates (REU) summer program. Recruited three additional students for the project (Ben Guzzardi, Paul Kohlhoff, and Andrew Wood (REU)).
- Summer 2009: Generated one undergraduate research position (David Cuffee III) for the Institute for Critical Technologies and Applied Science (ICTAS) commissioned art installation.
  - Summer 2009: *Sonification as a Tool for Optimizing Software Configuration* advising one VT graduate student (Cody Henthorne) and one visiting undergraduate student (Andrew Wood from Rochester University) sponsored through the Department of Computer Science's NSF-sponsored Research Experience for Undergraduates (REU) summer program.
  - Summer 2009: Advisor to Michael Matthews, recipient of Virginia Tech Undergraduate Research Institute (URI) research grant on a project involving networked iPods for the purpose of music making.
  - Spring 2009: Secured two undergraduate student research positions for the Kent Square installation of *Elemental* engaging two students (Jonathan Utt and Keith Wooldridge) responsible for retrofitting and upgrading of the existing installation's setup for the Kent Square exhibit.
  - Summer 2008: *Use of Sonification to Enhance IDEs and Facilitate Program Comprehension* project advising one graduate student and one visiting undergraduate student (SooBeen Kim from Wesleyan University) sponsored through the Department of Computer Science's NSF-sponsored Research Experience for Undergraduates (REU) summer program.
  - Spring 2008: Secured two paid undergraduate assistantships through the Wake Forest project (for additional info on the project please consult section [V.C.](#)).
  - Spring 2008–fall 2010: Thesis Committee member for Ji-Sun Kim (Computer Science/Center for Human-Computer Interaction).
  - Spring 2008: Secured one paid undergraduate assistantship through the Arts Museum of Western Virginia project.
  - Fall 2007: Williamsburg field trip and a recording session as part of the Soundtrack and Effects course in order to generate materials for the Freecol computer game commission/in-class project.
  - Summer 2007: *Aural Matrix Haptic Display Interface* (AMHDI) project (through ISCE, please consult Section V.C for more info), engaging two undergraduate students, plus one visiting undergraduate student (Nicholas Winter from Oberlin College) sponsored through the Department of Computer Science's Research Experience for Undergraduates (REU) summer program.
  - Summer 2007: *Science and Mathematics Inclusive Learning and Engagement* (SMILE) project continuation (through ISCE, please consult V.C for more info), engaging four undergraduate students.
  - Spring 2007: *Science and Mathematics Inclusive Learning and Engagement* (SMILE) project engaging two undergraduate students.

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- Spring 2007: VT Stakeholders project engaging two undergraduate students.

#### H. Course, curriculum, and program development

- April 2010: Organized and secured funding for the Digital interactive Sound & Intermedia Studio (DISIS) and *Linux Laptop Orchestra* (L2Ork) benefit concert featuring guest artists (Ron Coulter, Mark Engebretson, Matthew Burtner).
- January 2010: Negotiated Dept. upgrade of Sibelius software from version 5 to version 6 at a 50% discount (est. savings of \$600).
- December 2009: Organized *Linux Laptop Orchestra* (L2Ork) debut performance featuring works by Faculty and Laptop Orchestra (MUS4124) students, as well as Faculty and student performers.
- Fall 2009: organized Music Department facilities and Music Technology program as part of the Virginia Tech open house event.
- Fall 2009: Introduced two new Digital Interactive Sound & Intermedia Studio courses: *Linux Laptop Orchestra* (L2Ork) 3-credit-hour lecture for composers and researchers (MUS4124 listed under special topics in Music History and Literature) and *Linux Laptop Orchestra* (L2Ork) 1-credit-hour music ensemble (MUS3314) open to all VT students and Faculty.
- Fall 2009: Secured two undergraduate academic year student research positions from Music Dept. and School of Visual Arts for the purpose of development and maintenance of the Digital Interactive Sound & Intermedia Studio (DISIS) (Philip Cumbia) and the Linux Laptop Orchestra (L2Ork) (Michael Matthews) respectively.
- Summer 2009: Linux Laptop Orchestra (L2Ork) branding and online resources (<http://l2ork.music.vt.edu>).
- Spring 2009: Founded Linux Laptop Orchestra (L2Ork).
- April 2009: Organized Digital interactive Sound & Intermedia Studio (DISIS) performance event *Digital ID* featuring works by Faculty and Computer Music and Multimedia Design (MUS3065) students, also featuring Faculty and student performers and guest artists.
- Fall 2008: Represented the department on the University Curriculum Committee where newly proposed Digital Interactive Sound & Intermedia Studio (DISIS) *Computer Music & Multimedia Design* 2-semester course (MUS3065-6) was approved.
- Fall 2008: Negotiated two undergraduate student assistantships for Digital Interactive Sound & Intermedia Studio (DISIS) through the Collaborative for Creative Technologies in the Arts and Design (CCTAD).
- Summer 2008: Secured one graduate assistantship for the DARC Revo:over project.
- April 2008: Organized Digital interactive Sound & Intermedia Studio (DISIS) performance event *Digital ID* featuring works by Faculty and Computer Music and Multimedia Design (MUS3065) students, also featuring Faculty and student performers and guest artists.

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- Spring 2008: Secured one undergraduate assistantship for the DARC Revo:over project.
  - December 2007: Organized Digital interactive Sound & Intermedia Studio (DISIS) performance event *Digital ID* featuring works by Faculty and Computer Music and Multimedia Design (MUS3065) students, also featuring student performers.
  - Fall 2007: Negotiated a free Dept. upgrade of Sibelius software from version 4 to version 5 (est. value of \$3,200).
  - Fall 2007: Negotiated an undergraduate work-study DISIS tech position for music technology majors through CCTAD.
  - Fall 2007: Introduced *Soundtrack and FX Composition* special topic course (MUS4124) that allowed students to participate in creating soundtrack and effects for an international video game project titled *FreeCol* (<http://www.freecol.org>).
  - Fall 2007: Prepared curriculum proposals for five new courses. Submitted *Computer Music & Multimedia Design* 2-semester 3-credit-hour course proposal to the Curriculum Committee.
  - Summer 2007: Purchase, assembly, and installation of the Digital interactive Sound & Intermedia Studio (DISIS) infrastructure, including audio system design, projection screen installation, soldering 600+ audio connectors, equipment and software installation, electrical infrastructure, assembly of furniture, and system integration.
  - Summer 2007: Oversight of the move-in into the new Digital interactive Sound & Intermedia Studio (DISIS)space.
  - April 2007: Organized first Digital interactive Sound & Intermedia Studio (DISIS) performance event *Digital ID* featuring works by Faculty and Computer Music and Multimedia Design (MUS3065) students, also featuring Faculty and student performers and guest artists.
  - Spring 2007: Organized first Digital interactive Sound & Intermedia Studio (DISIS) event *Digital ID* featuring Department of Music faculty and Computer Music and Multimedia Design students.
  - Spring 2007: Digital interactive Sound & Intermedia Studio (DISIS) branding project (<http://disis.music.vt.edu>), including logo, online resources, and supporting infrastructure.
  - Spring 2007: Raised \$85,000+ through non-departmental resources including grants, proposals, and white papers for Digital interactive Sound & Intermedia Studio (DISIS) infrastructure (sources: Virginia Tech College of Liberal Arts & Human Sciences, Institute for Culture, Society, and Environment, Collaborative for Creative Technologies in the Arts and Design, Virginia Tech Foundation, and The State Council of Higher Education for Virginia).
  - Spring 2007: Oversaw construction of the new Digital interactive Sound & Intermedia Studio (DISIS) Music Technology program space.
  - Spring 2007: Prepared a foundation for a summer festival whose purpose will be outreach, establishing the newly implemented component of the music technology, and recruitment of students and student assistants for

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- the anticipated research projects that are to be conducted in the coming years.
- Fall 2006: Headed overhaul initiative of the Collaborative for Creative Technologies in the Arts and Design (CCTAD) *Cyberarts* course to allow for better interfacing with the music program.
  - Fall 2006: Introduced new *Computer Music & Multimedia Design* 2-semester multidisciplinary course (listed as a special topic course MUS4124) that focuses on creative research in the area of music technology and intermedia with special attention to interactive systems.
  - Fall 2006: collaborated with Yamaha tech support in an attempt to repair Disklaviers free of charge.
  - Fall 2006: Negotiated a contract with Sibelius software company on behalf of the Department of Music and obtained 16 upgraded licenses of Sibelius 4 for the departmental use free of charge (est. value of \$3,200).
  - Fall 2006: Prepared proposal for the overhaul of the Composition and Music Technology curriculum to reflect new curricular, research, and program opportunities associated with the newly proposed *Creative Technologies in Composition and Multimedia Art Design*.
  - Spring 2006: In collaboration with Michael Dunston, architects, and engineers, spearheaded creation of a detailed blueprint for the optimal design of the newly established Digital Interactive Sound and Intermedia Studio (DISIS).
  - Spring 2006: Submitted proposal for a new Digital interactive Sound & Intermedia Studio (DISIS) and office space for the music department through the Collaborative for Creative Technologies in the Arts and Design (CCTAD) initiative. Consequently, as of fall 2007 Music Department has two new spaces at its disposal, enabling us to enhance the music technology program and better interface with the CCTAD initiative.
  - Spring 2006: Submitted a proposal for building of the Digital Interactive Sound and Intermedia Studio (DISIS) in order to extend Music Department's music technology program. This proposal has in part served as a catalyst for a 50% increase in the Department's 2006-7 The State Council of Higher Education for Virginia (SCHEV) funding allocation.

**I. Student evaluations of instruction**

- On file in the department (summary provided in section [IV.A.](#)).

**J. Peer evaluations of instruction**

- On file in the department.

**L. Demonstrated efforts to improve one's teaching effectiveness**

- April 8, 2010: attended *Society for Electro-Acoustic Music in the United States* national conference (<http://seamus2010.stcloudstate.edu/>), St. Cloud, MN.

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- March 25, 2010: attended New York Electroacoustic Music Festival (NYCEMF) (<http://www.nycemf.org/>), New York, NY.
  - November 12, 2009: attended *Living In the KnowlEdge Society* (LIKES) community building workshop (<http://www.likes.org.vt.edu/>), Blacksburg, VA.
  - November 2009: attended *Electronic Music Midwest* (EMM) festival (<http://www.emmfestival.org/>), Kansas City, KS.
  - August 2009: attended *International Computer Music Conference* (ICMC) (<http://www.icmc2009.org/>), Montreal, Canada.
  - June 2009: attended *New Interfaces for Music Expression* (NIME) conference (<http://nime2009.org/>), Carnegie Mellon University, Pittsburg, Pennsylvania.
  - April 2009: attended *Society for Electro-Acoustic Music in the United States* national conference (<http://seamus.sweetwater.com/>), Fort Wayne, Indiana.
  - November 2008: attended 25<sup>th</sup> *Tonmeistertagung* conference (<http://www.tonmeister.de/tmt/>), Leipzig, Germany.
  - September 2008: attended *College Music Society* (CMS) national conference (<http://www.music.org/cgi-bin/showpage.pl?tmpl=/profactiv/conf/natl/2008/2008home&h=43>), Atlanta, GA.
  - August 2008: attended *International Computer Music Conference* (ICMC) (<http://www.icmc2008.net/>), Belfast, UK.
  - April 2008: attended *Society for Electro-Acoustic Music in the United States* (SEAMUS) national conference (<http://seamus2008.music.utah.edu/>), Salt Lake City, Utah.
  - October 2007: participated in *Growing Your Research Career at Virginia Tech* workshop, Blacksburg, VA.
  - Fall 2007: participated in a Center for Excellence in Undergraduate Teaching (CEUT) study group on developing interdisciplinary collaborative curriculum, Blacksburg, VA.
  - August, 2007: participated in the *International Computer Music Conference* (ICMC) (<http://www.icmc2007.net/>), Copenhagen, Denmark.
  - May 2007: participated in the Oberlin College music festival, Oberlin, Ohio.
  - March 2007: participated in 5<sup>th</sup> international *Linux Audio Conference* (LAC) (<http://lac.linuxaudio.org/2007/index.shtml>), Berlin, Germany.
  - March 2007: attended *Society for Electro-Acoustic Music in the United States* (SEAMUS) national conference (<http://www.music.iastate.edu/seamus/>), Ames, Iowa.
  - Fall 2006-Spring 2007: participated in a Center for Excellence in Undergraduate Teaching (CEUT) study group on developing interdisciplinary collaborative curriculum, Blacksburg, VA.
  - November 2006: attended *International Computer Music Conference* (ICMC), New Orleans, LA.
  - November 2006: attended *Third Practice* computer music festival (<http://igor.richmond.edu/3p06/>), Richmond, Virginia.

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- October 2006: participated in Virginia Tech College of Liberal Arts and Human Sciences (CLAHS) grant writing workshop, Blacksburg, VA.
  - August 2006: participated in the PR workshop by Dr. Rachel Holloway, Blacksburg, VA.
  - April 2006: attended 4<sup>th</sup> international *Linux Audio Conference* (LAC) (<http://lac.zkm.de/2006/>), Karlsruhe, Germany.
  - April 2006: attended Sonic Explorations festival in Cincinnati, Ohio.

## V. Research and Creative Activities

### A. Awards, prizes, and recognition

- May 3, 2010: Featured on the Virginia Tech news as part of the "University Awards" announcement. [international]
  - <http://www.universityawards.vt.edu/award.php?item=691>
  - <http://www.universityawards.vt.edu/2010awards.php>
- April 21, 2010: *Linux Laptop Orchestra* (L2Ork) featured on the Southern Illinois University Carbondale news site including the April 22<sup>nd</sup> front page feature. [national]
  - <http://news.siuc.edu/news/April10/042110amh10061.html>
- April 16, 2010: *Linux Laptop Orchestra* (L2Ork) and its partnership with *Boys & Girls Club* of Roanoke, VA featured on Virginia Tech's VTNews site. [international]
  - Elliott, J. (April 16, 2010). "University's laptop orchestra performs at home, on the road, and with children." Retrieved May 13, 2010, from <http://www.vtnews.vt.edu/story.php?relyear=2010&itemno=315>.
- April 12 – May 3, 2010: VT *Linux Laptop Orchestra* (L2Ork) featured on Virginia Tech's front page as part of the "Spotlight on Achievement." [international]
  - Elliott, J. (April 12, 2010). "Laptop orchestra combines music with technology, gaming skills." Retrieved May 13, 2010, from <http://www.vt.edu/spotlight/achievement/2010-04-12-laptop/laptop-orchestra.html>.
- April 12, 2010: VT *Linux Laptop Orchestra* (L2Ork) interview posted on the Virginia Tech YouTube channel. [international]
  - <http://www.youtube.com/watch?v=oLYCdpF26fg>
- April 3, 2010: VT *Linux Laptop Orchestra* (L2Ork) featured on the front cover of the international *Linux Journal*. The magazine also includes eight page coverage of the ensemble and an interview. [international]
  - Phillips, D. (2010). State of the Art: Linux Audio 2008. *Linux Journal*. Champlain, NY, HME Publishing Limited: 193 50-57.
- March 24, 2010: *Linux Laptop Orchestra* (L2Ork) students receive 2<sup>nd</sup> prize at the Virginia Tech Graduate Student Association's (GSA) Research Symposium, Blacksburg, VA. [local]

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- March 19, 2010: Interview with Becky Freemal for the regional FOX 21/27 TV station as part of the *Out and About* news segment (broadcast on March 31<sup>st</sup> 2010). [regional]
    - [http://www.fox2127.com/dpp/out\\_and\\_about/oa03.31.2010](http://www.fox2127.com/dpp/out_and_about/oa03.31.2010)
    - [http://www.fox2127.com/subindex/out\\_and\\_about](http://www.fox2127.com/subindex/out_and_about)
  - March 15, 2010: *Linux Laptop Orchestra* (L2Ork) featured on the College-Conservatory of Music Center for Computer Music's (CCM)<sup>2</sup> blog suggesting it is being in part used as a model for building (CCM)<sup>2</sup> laptop orchestra. [national]
    - <http://ccmsquared.blogspot.com/2010/03/linux-laptop-orchestra.html>
  - March 12, 2010: MSI's March 11, 2010 *Linux Laptop Orchestra* (L2Ork) partnership press release featured on various news sites, including: [international]
    - <http://www.bit-tech.net/news/industry/2010/03/12/msi-donates-computers-to-help-virginia-tech/1>
    - <http://www.bjorn3d.com/viewnews.php?id=4251>
    - <http://www.pureoverclock.com/story4461.html>
    - <http://www.hexus.net/content/item.php?item=22865>
  - March 11, 2010: MSI Computer Inc.'s mobile division publishes press release highlighting partnership with the *Linux Laptop Orchestra* (L2Ork). [international]
    - [http://us.msi.com/index.php?func=newsdesc&news\\_no=892](http://us.msi.com/index.php?func=newsdesc&news_no=892)
  - March 5, 2010: *Linux Laptop Orchestra* (L2Ork) recipient of the Virginia Tech XCaliber award for "for exceptional, high caliber contributions to technology-enriched teaching and learning." [local]
  - March 2010: Featured in Virginia Tech's College of Architecture and Urban Studies (CAUS) *CAUSE for Innovation* booklet documenting last 15 years of creative contributions. [regional]
    - Virginia Tech College of Architecture and Urban Studies. *Cause for Innovation*. Blacksburg, VA: Bison Printing, 2010.
  - January 18, 2010: *NUPUY* interactive aural sculpture installation (commissioned by Virginia Tech's Institute for Creative Technology and Applied Science) premiere (in collaboration with sculptor Prof. Steve Bickley) featured in *Collegiate Times*. Online version of the article available at <http://www.collegiatetimes.com/stories/15030/tech-sculpture-professor-shapes-lobby-of-ictas-building>. [local]
  - January 26, 2010: *Linux Laptop Orchestra* (L2Ork) featured in Roanoke Times as part of a story on Washington and Lee dance project involving wiimotes. Online version available at <http://www.roanoke.com/entertainment/234261>. [regional]
    - Allen, M. "Washington and Lee dancers have more than a Wii bit of fun." *The Roanoke Times*. January 26, 2010.
  - January 20, 2010: *Interactive Taiji* interactive audio-visual exercise game prototype featured on Virginia Tech's VTNews site. [international]

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- Allen, T. (January 20, 2010). "Faculty awarded distance learning research fellowships." Retrieved Feb. 18, 2010, from <http://www.vtnews.vt.edu/story.php?relyear=2010&itemno=7>.
  - January 18, 2010: *Linux Laptop Orchestra* (L2Ork) featured in *Collegiate Times*. Online version of the article available at <http://www.collegiatetimes.com/stories/14849/linux-laptop-orchestra-reprograms-musical-conventions>. [local]
  - January 11, 2010: *Linux Laptop Orchestra* (L2Ork) featured in *Linux Journal* as part of Dave Phillips's audio column. [international]
    - Phillips, D. (January 11, 2010) "The Gifting Season: Linux Audio For The Holidays." Retrieved February 18, 2010, from <http://www.linuxjournal.com/content/gifting-season-linux-audio-holidays>.
  - December 31, 2009: *Linux Laptop Orchestra* (L2Ork) featured on the *Create Digital Music* online computer music news magazine as part of the *CDM's Biggest Music Tech Stories of 2009*. [international]
    - Kirn, P. (December 31, 2009). "CDM's Biggest Music Tech Stories of 2009." Retrieved January 1, 2010, from <http://createdigitalmusic.com/2009/12/31/cdms-biggest-music-tech-stories-of-2009/>.
  - December 29, 2009: featured in *Roanoke Times* as part of the story on *Roanoke's Music Lab*. Online version of the article available at <http://www.roanoke.com/extra/wb/231177> and <http://ip-pbx.tmcnet.com/news/2009/12/29/4551628.htm>. [regional]
    - Dickens, T. "Music Lab partners rock." *The Roanoke Times*. December 29, 2009. p Extra 1 and 6.
  - December 21, 2009: *Linux Laptop Orchestra* (L2Ork) featured on the *Hack a Day* online hardware news magazine. [international]
    - Griffith, J. (December 21, 2009). "L2Ork – Virginia Tech Linux laptop orchestra." Retrieved January 1, 2010, from <http://hackaday.com/2009/12/21/l2ork-virginia-tech-linux-laptop-orchestra/>.
  - December 21, 2009: *Linux Laptop Orchestra* (L2Ork) featured on the *Create Digital Music* online computer music news magazine. [international]
    - Kirn, P. (December 31, 2009). "An Orchestra of Linux Laptops, and How to Make Your Own Laptop Instrument." Retrieved January 1, 2010, from <http://createdigitalmusic.com/2009/12/21/an-orchestra-of-linux-laptops-and-how-to-make-your-own-laptop-instrument/>.
  - December 17, 2009: *Linux Laptop Orchestra* (L2Ork) featured on the front page of the *NRVCurrent* section of *Roanoke Times*. Online version of the article available at <http://www.roanoke.com/news/nrv/nrventertainment/wb/229953>. [regional]
    - Matzke-Fawcett, A. "L2ORK isn't your typical orchestra" *The Roanoke Times*. December 17, 2009. p *NRVCurrent* 1 and 8.

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- December 4, 2009: *Linux Laptop Orchestra* (L2Ork) featured in the Russian PCNEws online news site. [international]
    - PCNews. (December 4, 2009). "Первый в мире ноутбук-оркестр на базе Linux." Retrieved January 1, 2010, from <http://www.pcnews.ru/news/linux-l2ork-2009-isce-laptop-orchestra-msi-ubuntu-wiimotes-nunchuk-ikea-ivica-ico-bukvic-mac-youtube-k12-284820.html>.
  - December 4, 2009: *Linux Laptop Orchestra* (L2Ork) featured in the Italian edition of the *WIRED* magazine. [international]
    - WIRED. (December 4, 2009). "Un direttore d'orchestra di nome Linux." Retrieved January 1, 2010, from <http://www.wired.it/news/archivio/2009-12/04/un-direttore-d%27orchestra-di-nome-linux.aspx>.
  - December 4, 2009: Interview and a feature on *Linux Laptop Orchestra* (L2Ork) on regional WSLs10 TV news. [regional]
    - Henshaw, J. (December 4, 2009). "Virginia Tech students demo new laptop orchestra." Retrieved January 1, 2010, from [http://www2.wsls.com/sls/news/local/new\\_river\\_valley/article/virginia\\_tech\\_students\\_demo\\_new\\_laptop\\_orchestra/66577/](http://www2.wsls.com/sls/news/local/new_river_valley/article/virginia_tech_students_demo_new_laptop_orchestra/66577/).
    - WSLs10. (December 4, 2009). "Virginia Tech students demo new laptop orchestra." Retrieved January 1, 2010, from <http://www.msnbc.msn.com/id/34282012/>.
  - December 4, 2009: Interview and a feature on *Linux Laptop Orchestra* (L2Ork) on regional WDBJ7 TV news. [regional]
    - WDBJ7. (December 4, 2009). "Laptop orchestra at Virginia Tech gives people an affordable alternative." Retrieved January 1, 2010, from <http://www.wdbj7.com/Global/story.asp?S=11623955>.
  - December 3, 2009: *Linux Laptop Orchestra* (L2Ork) featured on the front page of the *alcancelibre* news site. [international]
    - alcancelibre. (December 3, 2009). "Presentando L2Ork, la primera orquesta con ultra-portátiles con GNU/Linux." Retrieved January 1, 2010, from <http://www.alcancelibre.org/article.php/presentando-l2ork-orquesta-netbooks-linu>.
  - December 3, 2009: *Linux Laptop Orchestra* (L2Ork) featured on the front page of the *Slashdot* news site. [international]
    - Slashdot. (December 3, 2009). "Introducing L2Ork, World's First Linux Laptop Orchestra." Retrieved January 1, 2010, from <http://slashdot.org/story/09/12/03/2018253/Introducing-L2Ork-Worlds-First-Linux-Laptop-Orchestra>.
  - December 2, 2009: *Linux Laptop Orchestra* (L2Ork) featured in Roanoke Times Arts & Extras blog. [regional]
    - Allen, M. (December 2, 2009). "Linux Laptop Orchestra ("L2Ork") performs Friday at Virginia Tech." Retrieved January 1, 2010, from <http://blogs.roanoke.com/rtblogs/arts/2009/12/02/linux-laptop-orchestra-l2ork-performs-friday-at-virginia-tech/>.
  - December 2, 2009: *Linux Laptop Orchestra* (L2Ork) featured on Virginia Tech's College of Engineering page. [regional]

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- ECE (December 2, 2009). "Ultra-affordable laptop orchestra debuts." Retrieved January 1, 2010, from <http://www.ece.vt.edu/>.
  - December 2, 2009: Virginia Tech's press release on *Linux Laptop Orchestra* (L2Ork) published on the front page of the Con-Techie open source news site. [international]
    - Con-Techie (December 2, 2009). "Linux Laptop Orchestra gives debut performance at Virginia Tech." Retrieved January 1, 2010, from <http://www.con-techie.com/index.php/component/content/article/36-articles/147-linux-laptop-orchestra-gives-debut-performance-at-virginia-tech>.
  - December 2, 2009: *Linux Laptop Orchestra* (L2Ork) featured on Virginia Tech's VTNews site. [international]
    - Elliott, J. (December 2, 2009). "Linux Laptop Orchestra gives debut performance at Virginia Tech." Retrieved January 1, 2010, from <http://www.vtnews.vt.edu/story.php?itemno=908&relyear=2009>.
  - December 1, 2009: Virginia Tech's press release on *Linux Laptop Orchestra* (L2Ork) published by Communications of the ACM. [national]
    - Communications of the ACM (December 1, 2009). "Linux Laptop Orchestra gives debut performance at Virginia Tech." Retrieved January 1, 2010, from <http://cacm.acm.org/news/53470-linux-laptop-orchestra-gives-debut-performance/fulltext>.
  - November 30, 2009: Virginia Tech's press release on *Linux Laptop Orchestra* (L2Ork) published by Newswise. [national]
    - Newswise (November 30, 2009). "Linux Laptop Orchestra – L2Ork – Gives Debut Performance." Retrieved January 1, 2010, from <http://www.newswise.com/articles/linux-laptop-orchestra-l2ork-gives-debut-performance2>.
  - December 2009: *Linux Laptop Orchestra* (L2Ork) website received 660,999 hits and 11,500+ views of YouTube L2Ork video clips due to media and online news coverage of the December 4, 2009 debut. [international]
  - November 15, 2009: nominated for a Member-at-Large Board position of the *International Computer Music Association* (ICMA) (<http://www.computermusic.org>). [peer review, international]
  - November 10, 2009: interview with Connie Stevens, a news correspondent for WVTF and National Public Radio (NPR) regarding the *Linux Laptop Orchestra* (L2Ork) project. [national]
  - November 5, 2009: invited to give talk at the TEDxMidAtlantic conference with the theme being "the power of stories" (<http://www.tedxmidatlantic.com>), Baltimore, MD. [national]
    - <http://tedxmidatlantic.com/live/#IvoBukvic>
    - <http://www.storiography.com/journal/tedxmidatlantic/>
    - <http://www.flickr.com/photos/xiana-aretta/sets/72157622628797969/?page=3>
    - <http://stellargirl.typepad.com/stellargirl/2009/11/inspired-by-tedxmidatlantic.html>

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- November 2, 2009: *μ Max-Unity3D Interoperability Toolkit* (for additional info please consult [V.G.1](#)) featured on the *vdmokstati* online blog for multimedia artists (<http://www.vdmokstati.com/2009/11/02/unity-2-6-goes-free-maxunity-bridge/>). [international]
  - October 26, 2009: interview by the *Christian Science Monitor* in an article titled "Who owns an artist's legacy?" (<http://www.csmonitor.com/2009/1026/p27s01-algn.html>). [international]
    - Guarino, M. "Who owns an artist's legacy?" *The Christian Science Monitor*. October, 26, 2009. Art.
  - October 19-26, 2009: *callitwhatchawant* algorithmic composition demo application (for additional info on the project please consult [V.G.1](#)) and an interview discussing its operation featured on the Virginia Tech's front page as part of the Spotlight on the celebration of 150 years since the publishing of Darwin's *Origin of Species*. [national]
    - <http://www.vt.edu/spotlight/innovation/2009-10-19-darwin/2009-10-19-twists.html>
    - <http://www.vt.edu/spotlight/innovation/2009-10-19-darwin/darwin-music.html>
    - <http://www.vt.edu/spotlight/innovation/2009-10-19-darwin/twists-ico-interview.html>
  - September 25, 2009: *Elemental* and *Cyrene Cyrene Reefs* (physical sculpture by Prof. Eric Standley) interactive multisensory installations featured in *Roanoke Times*. Online version available at <http://www.roanoke.com/news/nrv/220254>. [regional]
    - Matzke-Fawcett, A. "Technology meets art at Virginia Tech." *The Roanoke Times*. September 25, 2009.
  - September 22, 2009: *Elemental* and *Cyrene Cyrene Reefs* (physical sculpture by Prof. Eric Standley) interactive multisensory installations and *Interactive Taiji* interactive audio-visual exercise game prototype featured on Virginia Tech's VTNews site. [international]
    - Chadwick, H. (September 22, 2009). "New gallery in Kent Square premieres with eight exhibitions." Retrieved Feb. 18, 2010, from <http://www.vtnews.vt.edu/story.php?relyear=2009&itemno=716>.
  - Fall 2009: American Society of Composers and Publishers ASCAP Plus award recipient. [national]
  - July 9, 2009: *with delicate risk* audio-visual work (in collaboration with visual artists Dane Webster) was recognized as part of the 2009 Best Animated Short category award at the *Frozen Film Festival*, San Francisco, CA (<http://www.frozenfilmfestival.com/pages/lineup09.php>). [peer review, international]
  - June 28, 2009: *with delicate risk* audio-visual work (in collaboration with visual artists Dane Webster) received Fear No Film Grand Jury Honorable Mention award at the *Fear No Film Festival*, Salt Lake City, UT (<http://www.slcfilmcenter.org/?id=448>). [peer review, national]
  - June 5, 2009: interview with the Carnegie Mellon media relations regarding *Elemental* and *Cyrene Reefs* interactive multimedia installations

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- presented at the international *New Interfaces for Music Expression* (NIME) conference (<http://www.cmu.edu/news/news-notes/multimedia/nime2009.mov>), Pittsburg, PA. [national]
- May 26, 2009: *μ Max-Unity3D Interoperability Toolkit* (for additional info please consult [V.G.1](#)) featured on the online VJ forums (<http://vjforums.com/showthread.php?p=230053>). [international]
  - April 25, 2009: *Borealis* Linux desktop sound theme (<http://www.kde-look.org/content/show.php?content=12584>) selected as the default theme for the Ubuntu Studio 9.04 Linux software distribution (<http://ubuntustudio.org/>). [peer review, commission, international]
  - April 21, 2009: Recipient of the Creative Achievement Award from VT CAUS for the *Revo:oveR* interactive multimedia installation exhibit. [peer review, regional]
  - April 7, 2009: Interview with Collegiate Times writer Theresa Tobat covering Digital Interactive Sound & Intermedia Studio (DISIS) and opportunities it offers to Virginia Tech students. [invitation, regional]
  - April 6, 2009: *μ Max-Unity3D Interoperability Toolkit* (for additional info please consult [V.G.1](#)) featured on the *Create Digital Music* online computer music news magazine and *Create Digital Motion* partner site. [international]
    - Kirn, P. (April 6, 2009). "More Max+Unity Game Engine Goodness, with Powerful Toolkit for Max, Jitter, Pd." Retrieved November 21, 2009, from <http://createdigitalmusic.com/2009/04/06/more-maxunity-game-engine-goodness-with-powerful-toolkit-for-max-jitter-pd/>.
    - Kirn, P. (April 6, 2009). "Process Textures with Jitter, Connect to Unity Game Engine." Retrieved November 21, 2009, from <http://createdigitalmotion.com/2009/04/06/process-textures-with-jitter-connect-to-unity-game-engine/>.
  - April 6, 2009: *Elemental* interactive communal installation, and early prototype of the *Revo:oveR* interactive multimedia installation featured on the *Create Digital Music* online computer music news site. [international]
    - Kirn, P. (April 6, 2009). "Immersive Music: Revo:oveR Installation, Lightbent Synth, Max + Unity." Retrieved November 21, 2009, from <http://createdigitalmusic.com/2009/04/06/immersive-music-revoover-installation-max-unity/#more-5556>.
  - March 2, 2009: *Borealis* desktop sound theme licensed by Fididel Inc. (<http://www.fididel.com/index.php>). [commission, national]
  - February 26, 2009: *Borealis* desktop sound theme licensed by *Epidemic* Brazilian Linux distribution (<http://distrowatch.com/table.php?distribution=epidemic>). [commission, international]
  - February 7, 2009: *Elemental* and *Cyrene Reefs* (part of the *Revo:oveR* interactive multimedia art exhibit) featured in the Extra section's front-page *Roanoke Times* article as part of the *Revo:oveR* article "An exhibit you can touch." [regional]

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- Kittredge, K. "An Exhibit You Can Touch" The Roanoke Times. February 7, 2009. p Extra 1.
  - October 17, 2008: Featured in *Roanoke Times* (page 11) as part of the VT Composers concert review. Online version available at <http://issuu.com/theroanokestar/docs/oct17issuu?mode=embed&documentId=081016174116-afb9d64e82624381a841870c0a456733&layout=white>. [regional]
    - "The University Chamber Music Series presents 'New Music from Virginia Tech.'" The Roanoke Times. October 17, 2008. p 11.
  - October 8, 2008: Interview for *Collegiate Times*. Online version of the article available at [http://www.collegiatetimes.com/stories/2008/10/08/hokie\\_tonk](http://www.collegiatetimes.com/stories/2008/10/08/hokie_tonk). [local]
  - October 30, 2008: *Borealis* Linux desktop sound theme (<http://www.kde-look.org/content/show.php?content=12584>) selected as the default theme for the Ubuntu Studio 8.10 Linux software distribution (<http://ubuntustudio.org/>). [peer review, commission, international]
  - September 1, 2008: Featured in the *Linux Journal* article "State of the Art: Linux Audio 2008." Online version available at <http://www.linuxjournal.com/article/10162>. [international]
    - Phillips, D. (2008). State of the Art: Linux Audio 2008. Linux Journal. Champlain, NY, HME Publishing Limited: 173 88-95.
  - Fall 2008: American Society of Composers and Publishers ASCAP Plus award recipient. [national]
  - Fall, 2008: *SUN Microsystems* commissions sound theme for the *Open Solaris* operating system. [commission, international]
  - Fall 2008-present: Appointed by peer vote assistant co-Director of CCTAD. [peer review, local]
  - August 25-September 1, 2008: *Pandora* and *with delicate risk* featured on the VT front page as part of the Spotlight on the *Creative Technologies in the Arts*. For more info please visit [http://www.vt.edu/spotlight/innovation/2008-08-25\\_technology\\_art/2008-08-25\\_technology\\_art.html](http://www.vt.edu/spotlight/innovation/2008-08-25_technology_art/2008-08-25_technology_art.html). [national]
  - Summer 2008: Commissioned to contribute interactive aural content to the *Singing Darwin* project (funded by the Virginia Tech Institute for Society, Culture and Environment) headed by Prof. Carol Burch-Brown. [regional]
  - May 4, 2008: *Borealis* desktop sound theme featured in *Let it Beep* tune by Tape Hiss Recordings. For more info please visit <http://www.myspace.com/tapehissrecordings>. [international]
  - April 24, 2008: *Borealis* desktop sound theme (<http://www.kde-look.org/content/show.php?content=12584>) selected by the Ubuntu Studio 8.04 Linux software distribution as the default sound theme. [peer review, commission, international]
  - March 21, 2008: Parts of *Borealis* desktop sound theme (<http://www.kde-look.org/content/show.php?content=12584>) selected as the default sound theme by the Linux Gnome project.

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(<http://linux.softpedia.com/get/Desktop-Environment/Gnome/gnome-audio-37520.shtml>). [international]

- Fall 2007: American Society of Composers and Publishers ASCAP Plus award recipient.
- Fall 2007: TWISTS commission to write, arrange, and produce music and sound effects for the "Nuclear Power Reconsidered" theatrical play. [commission, regional]
- Fall 2007: Courtesy appointment in the Art & Art History. [local]
- Fall 2007: Courtesy appointment in Computer Science. [local]
- December 24, 2007: *Borealis* desktop sound theme (<http://www.kde-look.org/content/show.php?content=12584>) selected as the default sound theme by the Dropline Gnome project (<http://www.droplinegnome.net/>). [international]
- June 30, 2007: *Borealis* desktop sound theme (<http://www.kde-look.org/content/show.php?content=12584>) selected as the default theme for the Ubuntu Studio 7.10 software distribution (<http://ubuntustudio.org/>). [peer review, commission, international]
- Spring 2007: *Soul* work for computer and voice commissioned by Theodore Sipes. [commission, local]
- Spring 2007: VT Stakeholders commission to compose a soundtrack for the promotional materials for the Performing Arts Center fund-raising campaign. [commission, local]
- March 10, 2007: Reelected board member and treasurer for the Society of Electro-Acoustic Music in the United States. [peer vote, national]
- January 23, 2007: *Borealis* Linux desktop sound theme selected as the default theme for the Ubuntu Studio 7.04 Linux software distribution (<http://ubuntustudio.org/>). [peer vote, international]
- October, 2006: *All Your Sprache Are Belong to Strauss* featured in the *Society for Electro-Acoustic Music in the United States* Newsletter ([http://www.seamusonline.org/smemb/pdf/06\\_Oct\\_Issue\\_4.pdf](http://www.seamusonline.org/smemb/pdf/06_Oct_Issue_4.pdf)): SEAMUS Newsletter, No. 4, 2006. [national]
- September 2006: Interview published in issue #66 of the Linux User & Developer international magazine: Phillips, D. (2006). An Interview With Ivica "Ico" Bukvic. *Linux User & Developer*. Champlain, NY, HME Publishing Limited: 66:70-73. [international]
- Fall 2006: American Society of Composers and Publishers ASCAP Plus award recipient.
- Fall 2006: *Gaudeamus* commissioned by the Virginia Tech. [commission, local]
- Fall 2006: *All Your Sprache Are Belong to Strauss* published in the SEAMUS 20<sup>th</sup> Anniversary Electroclips CD: The Society for Electro-Acoustic Music in the United States (2006). "The SEAMUS 20th Anniversary Electroclips Contest." *Music from SEAMUS*. SEAMUS. Kansas City, Missouri, SEAMUS. [peer review, national]
- Summer 2006: *Borealis* Linux desktop sound theme expansion commissioned by Gregoire Gentil. [commission, international]

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- April 30, 2006: Interview with the PlanetBlacksburg online community magazine (<http://www.planetblacksburg.com/news/komal-043006.html>). [local]
  - Spring 2006: Invited (by Dr. Francis Quek, Director) to become first non-Computer Science (CS) member of Virginia Tech's Center for Human-Computer Interaction (CHCI). [local]
  - Spring 2006: Invited to join Digital Arts Research Collaborative collaborative group for the purpose of creation of an interactive multimedia installation for the grand opening of the Arts Museum of Western Virginia. [invitation, local]
  - Spring 2006: *All Your Sprache Are Belong to Strauss* voted winner of the 20<sup>th</sup> anniversary Electroclips composition contest sponsored by the *Society for Electro-Acoustic Music in the United States* (SEAMUS). [peer vote, national]

## B. List of contributions

### 5. Papers in refereed conference proceedings

- NIME JUNE 2010 L2ORK PAPER
- ICMC JUNE 2010 DREAM PAPER
- **Bukvic, I.** and \*Ji-Sun Kim. (2009). "μ MAX-UNITY3D INTEROPERABILITY TOOLKIT." *International Computer Music Conference*, Montreal, Canada, 375-378, August 16-21, 2009. [peer review, international]
- \*Hussein, K., **E. Tilevich**, I. Bukvic and \*SooBeen Kim. (2009). "Sonification design guidelines to enhance program comprehension." *IEEE's International Conference on Program Comprehension*, Vancouver, Canada, 120-129, May 17-19, 2009. [peer review, international]
- **Bukvic, I.**, D. Gracanin and F. Quek. (2008). "Investigating artistic potential of the DREAM interface: The Aural Painting." *International Computer Music Conference*, Belfast, UK, August 24-29, 2008. [peer review, international]
- **Bukvic, I.**, \*J. Kim, D. Trueman and T. Grill. (2007). "munger1~: TOWARDS A CROSS-PLATFORM SWISS-ARMY KNIFE OF REAL-TIME GRANULAR SYNTHESIS." *International Computer Music Conference*, Copenhagen, Denmark, 349-354, August 27-31, 2009. [peer review, international]

### 6. Performances, exhibitions, compositions

- May 4, 2010: *Citadel* composition for the *Linux Laptop Orchestra* (L2Ork) and soprano performance as part of Chelsea Crane's graduate recital, Blacksburg, VA. [local]

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- May 4, 2010: *Half-Life* composition for the *Linux Laptop Orchestra* (L2Ork) and narrator performance as part of Chelsea Crane's graduate recital, Blacksburg, VA. [local]
  - April 25, 2010: *Citadel* composition for the *Linux Laptop Orchestra* (L2Ork) and soprano performance at the *International Intermedia Festival of Telematic Arts* festival in Indianapolis, IN (hosted by IUPUI, Indiana University Purdue University Indianapolis). [peer review, international]
  - April 25, 2010: *Half-Life* composition for the *Linux Laptop Orchestra* (L2Ork) and narrator performance at the *International Intermedia Festival of Telematic Arts* festival in Indianapolis, IN (hosted by IUPUI, Indiana University Purdue University Indianapolis). [peer review, international]
  - April 25, 2010: *iteration13* interactive audio-visual work for tap dancer (Ann Kilkelly), visual artist (Carol Burch-Brown), and camera and interactive computer (**Ivica Ico Bukvic**) performance at the *International Intermedia Festival of Telematic Arts* festival in Indianapolis, IN (hosted by IUPUI, Indiana University Purdue University Indianapolis). [peer review, international]
  - April 22, 2010: *What's He Building?* arrangement of Tom Waits' piece for *Linux Laptop Orchestra* (L2Ork) and narrator (performed by guest artist Ron Coulter) performance as part of the Southern Illinois Improvisation Series (SiiS), Carbondale, IL. [invitation, national]
  - April 22, 2010: *13* composition for *Linux Laptop Orchestra* (L2Ork) and solo percussion (performed by guest artist Ron Coulter) performance as part of the Southern Illinois Improvisation Series (SiiS), Carbondale, IL. [invitation, national]
  - April 22, 2010: *Citadel* composition for the *Linux Laptop Orchestra* (L2Ork) and soprano performance as part of the Southern Illinois Improvisation Series (SiiS), Carbondale, IL. [invitation, national]
  - April 22, 2010: *Half-Life* composition for the *Linux Laptop Orchestra* (L2Ork) and narrator performance as part of the Southern Illinois Improvisation Series (SiiS), Carbondale, IL. [invitation, national]
  - April 20, 2010: *Citadel* composition for the *Linux Laptop Orchestra* (L2Ork) and soprano performance as part of the L2Ork spring Midwest tour, *Sonic Explorations*, Cincinnati, OH. [national]
  - April 20, 2010: *Half-Life* composition for the *Linux Laptop Orchestra* (L2Ork) and narrator performance as part of the L2Ork spring Midwest tour, *Sonic Explorations*, Cincinnati, OH. [national]
  - April 17, 2010: *Blues Brothers Theme* arrangement (Based on *Everybody Needs Somebody to Love* by Bert Berns, Solomon Burke, and Jerry Wexler) for the *Boys & Girls Club* satellite laptop orchestra premiere solo percussion (performed by guest artist Ron Coulter) and Sax (performed by guest artist Mark Engebretson) premiere at the Virginia Tech Department of Music Digital Interactive Sound & Intermedia Studio DISIS/L2Ork spring benefit concert (part of Virginia Tech's *Arts Fusion* festival), Blacksburg, VA. [regional]

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- April 17, 2010: *What's He Building?* arrangement of Tom Waits' piece for *Linux Laptop Orchestra* (L2Ork) and narrator (performed by guest artist Ron Coulter) performance at the Virginia Tech Department of Music Digital Interactive Sound & Intermedia Studio DISIS/L2Ork spring benefit concert (part of Virginia Tech's *Arts Fusion* festival), Blacksburg, VA. [regional]
  - April 17, 2010: *13* composition for *Linux Laptop Orchestra* (L2Ork) and solo percussion (performed by guest artist Ron Coulter) premiere at the Virginia Tech Department of Music Digital Interactive Sound & Intermedia Studio DISIS/L2Ork spring benefit concert (part of Virginia Tech's *Arts Fusion* festival), Blacksburg, VA. [regional]
  - April 17, 2010: *Citadel* composition for the *Linux Laptop Orchestra* (L2Ork) and soprano performance as part of the Virginia Tech Department of Music Digital Interactive Sound & Intermedia Studio DISIS/L2Ork spring benefit concert (part of Virginia Tech's *Arts Fusion* festival), Blacksburg, VA. [regional]
  - April 17, 2010: *Half-Life* composition for the *Linux Laptop Orchestra* (L2Ork) and narrator performance as part of the Virginia Tech Department of Music Digital Interactive Sound & Intermedia Studio DISIS/L2Ork spring benefit concert (part of Virginia Tech's *Arts Fusion* festival), Blacksburg, VA. [regional]
  - April 8-10, 2010: *FORGETFULNESS* interactive audio-visual piece (in collaboration with poet Denise Duhamel) installation as part of the *Society for Electro-Acoustic Music in the United States* (SEAMUS) 2010 conference in St. Cloud, MN. [peer review, national]
  - March 25, 2010: *derelicts of time* for trombone, interactive computer and visuals (commissioned and performed by Dr. Jay Crone and in part sponsored by the CLAHS Faculty grant) performance in the Galapagos Galleria (Brooklyn, NY), as part of the New York Electronic Music Festival (NYCEMF), New York, NY. [peer review, national]
  - January 20, 2010: *derelicts of time* for trombone, interactive computer and visuals (commissioned and performed by Dr. Jay Crone and in part sponsored by the CLAHS Faculty grant) performance at the College-Conservatory of Music, University of Cincinnati as part of the *Sonic Explorations* concert series, Cincinnati, OH. [national]
  - January 20, 2010: *FORGETFULNESS* interactive audio-visual piece (in collaboration with poet Denise Duhamel) performance at the College-Conservatory of Music, University of Cincinnati as part of the *Sonic Explorations* concert series, Cincinnati, OH. [national]
  - December 16, 2009: *17* interactive multimedia theatrical piece (in collaboration with Actor/Director Sue Ott Rowlands and international artist Tibor Varszegi) performance at the *Malom* Theatre, Jaszbereny, Hungary. [international]
  - December 4, 2009: *Citadel* composition for the *Linux Laptop Orchestra* (L2Ork) and soprano premiere as part of the debut L2Ork performance, Blacksburg, VA. [regional]

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- December 4, 2009: *Half-Life* composition for the *Linux Laptop Orchestra* (L2Ork) and narrator premiere as part of the debut L2Ork performance, Blacksburg, VA. [regional]
  - November 23-24, 2009: *Singing Darwin* aural installation premiere as part of the *Singing Darwin* 24-hour performance event in celebration of 150 years since the publishing of Charles Darwin's *Origin of Species*, Blacksburg, VA. [commission, regional]
  - November 7, 2009: *derelects of time* for trombone, interactive computer and visuals (commissioned and performed by Dr. Jay Crone and in part sponsored by the CLAHS Faculty grant) performance at *Electronic Music Midwest* (EMM) computer music festival, Kansas City, KS. [peer review, national]
  - November 3, 2009: *NUPUY* interactive aural sculpture installation (commissioned by Virginia Tech's Institute for Creative Technology and Applied Science) premiere (in collaboration with sculptor Prof. Steve Bickley) as the permanent exhibit in the foyer of the new Virginia Tech Institute for Critical Technology and Applied Science (ICTAS) on-campus ICTAS building. [commission, regional]
  - October 7, 2009: *callitwhatchawant* algorithmic composition demo application's (for additional info on the project please consult [V.G.1](#)) audio content featured as part of the soundtrack for the *Living Darwin* play staged by Virginia Tech's Theatre Workshop in Science, Technology and Society (TWISTS), Blacksburg, VA. [local]
  - September 23, 2009-present: *Interactive Taiji* interactive audio-visual exercise game prototype with dynamic self-evolving music (for additional info on the project please consult section [V.C](#)) exhibit as part of the public opening the *Experiential Galleria*, Blacksburg, VA. [regional]
  - September 23, 2009-present: *with delicate risk* audio-visual work (in collaboration with visual artists Dane Webster) exhibit as part of the public opening the *Experiential Galleria*, Blacksburg, VA. [commission, regional]
  - September 23, 2009-present: *Elemental* interactive communal audio installation exhibit as part of the public opening the *Experiential Galleria*, Blacksburg, VA. [commission, regional]
  - September 23, 2009-present: *Cyrene Reefs* interactive multisensory installation (physical sculpture by Prof. Eric Standley) exhibit as part of the public opening the Kent Square Galleria, Blacksburg, VA. [commission, regional]
  - July 9, 2009: *with delicate risk* audio-visual work (in collaboration with visual artists Dane Webster) performance at the *Frozen Film Festival*, San Francisco, CA (<http://www.frozenfilmfestival.com/pages/lineup09.php>). [peer review, international]
  - June 30, 2009: *Jadran poslije kiše* composition for solo cello performed by cellist Nino Ružević (Assist. Prof. University of North Texas) at the

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- international College Music Society conference, Dubrovnik, Croatia. [peer review, international]
- June 25, 2009: *with delicate risk* audio-visual work (in collaboration with visual artist Dane Webster) performance at the *Fear No Film Festival*, Salt Lake City, UT (<http://www.slcfilmcenter.org/?id=448>). [peer review, national]
  - June 4, 2009: *Elemental* interactive communal audio installation exhibit as part of *New Interfaces for Music Expression* (NIME) conference at Carnegie Mellon University, Pittsburg, PA. [peer review, international]
  - June 4, 2009: *Cyrene Reefs* interactive multisensory installation (physical sculpture by Prof. Eric Standley) exhibit as part of *New Interfaces for Music Expression* (NIME) conference at Carnegie Mellon, Pittsburg, PA. [peer review, international]
  - May 8, 2009: *with delicate risk* audio-visual work (in collaboration with visual artist Dane Webster) performance at the *Maryland Film Festival* ([www.mdfilmfest.com](http://www.mdfilmfest.com), [http://www.missiontix.com/moreinfo.cfm?Product\\_ID=7668](http://www.missiontix.com/moreinfo.cfm?Product_ID=7668)), Baltimore, MD. [peer review, national]
  - May 6, 2009: *Elemental* interactive communal audio installation exhibit as part of the Kent Square Galleria private showing, Blacksburg, VA. [commission, regional]
  - May 6, 2009: *Cyrene Reefs* interactive multisensory installation (physical sculpture by Prof. Eric Standley) exhibit as part of the Kent Square Galleria private showing, Blacksburg, VA. [commission, regional]
  - May 6, 2009: *with delicate risk* audio-visual work (in collaboration with visual artist Dane Webster) installation as part of the Kent Square Galleria show, Blacksburg, VA. [regional]
  - May 1, 2009: *FORGETFULNESS* interactive audio-visual piece (in collaboration with poet Denise Duhamel) published on the *New River Journal*, oldest journal of online new media in US (<http://www.cddc.vt.edu/journals/newriver/09Spring/index.html>). [peer review, national]
  - April 24, 2009: *FORGETFULNESS* interactive audio-visual piece (in collaboration with poet Denise Duhamel) premiere at the *Digital iD*, Virginia Tech Department of Music Digital Interactive Sound & Intermedia Studio (DISIS) multimedia event (part of Virginia Tech's *Arts Fusion* festival), Blacksburg, VA. [local]
  - April 24, 2009: *17* interactive multimedia theatrical piece (in collaboration with Actor/Director Sue Ott Rowlands and international artist Tibor Varszegi) premiere at the *Digital iD*, Virginia Tech Department of Music Digital Interactive Sound & Intermedia Studio (DISIS) multimedia event (part of Virginia Tech's *Arts Fusion* festival), Blacksburg, VA. [local]
  - April 17, 2009: *iteration13* interactive audio-visual work for tap dancer (Ann Kilkelly), visual artist (Carol Burch-Brown), and camera and

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- interactive computer (**Ivica Ico Bukvic**) performance at the *Society for Electro-Acoustic Music in the United States (SEAMUS) 2009* conference in Sweetwater, Fort Wayne, IN. [peer review, national]
- March 20, 2009: *with delicate risk* audio-visual work (in collaboration with visual artist Dane Webster) performance at *ACM Southeast Digital Animation Festival (SEDAF)*, Clemson, SC (<http://www.cs.clemson.edu/acmse09/Animation/>). [peer review, national]
  - March 2, 2009: parts of *Borealis* desktop sound theme licensed by Fididel Inc. (<http://www.fididel.com/index.php>). [commission, national]
  - March 2009: 250,000 downloads of *Borealis*, one of the top-voted (according to the international Linux community website) desktop sound themes. For more info please see <http://www.kde-look.org/content/show.php/?content=12584>. [public vote, international]
  - January 2009: *Interactive Taiji* dynamic/evolving soundtrack as part of the *Interactive Taiji* game prototype for the Craig County Public School pilot study, Blacksburg, VA. [regional]
  - December 2008: *Silent Night* arrangement aired as part of the Christmas mix on the [WVRU 89.9 FM](http://www.wvru.com) Radford radio station, Radford, VA. [regional]
  - November 2008-March 2009: Digital Arts Research Collective (DARC) *Revo:over* exhibit premiere (part of the Taubman opening setup), including: *Elemental* interactive communal audio installation, and interactive audio-visual content to *Cyrene Reefs* (*Cyrene Reefs* physical sculpture by Prof. Eric Standley), Roanoke, VA. [commission, regional]
  - November 4, 2008: *with delicate risk* audio-visual work (in collaboration with visual artist Dane Webster) performance at *3<sup>rd</sup> Practice* computer music festival (<http://igor.richmond.edu/3p08/>) at University of Richmond, VA. [invitation, national]
  - October 19, 2008: *derelicts of time* for trombone, interactive computer and visuals (commissioned and performed by Dr. Jay Crone and in part sponsored by the CLAHS Faculty grant) performance at Virginia Tech *Chamber Music* series concert, Blacksburg, VA. [regional]
  - October 19, 2008: *with delicate risk* audio-visual work (in collaboration with visual artist Dane Webster) performance at Virginia Tech *Chamber Music* series concert, Blacksburg, VA. [regional]
  - October 18, 2008: *derelicts of time* for trombone, interactive computer and visuals (commissioned and performed by Dr. Jay Crone and in part sponsored by the CLAHS Faculty grant) performance at Virginia Tech *Chamber Music* series concert, Blacksburg, VA. [regional]
  - October 18, 2008: *with delicate risk* audio-visual work (in collaboration with visual artist Dane Webster) performance at Virginia Tech *Chamber Music* series concert, Blacksburg, VA. [regional]
  - October 17, 2008: *with delicate risk* audio-visual work (in collaboration with visual artist Dane Webster) performance at the *International Film*

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*Festival*, Amsterdam, Netherlands.

([http://www.dnerve.com/IAFF\\_2008/films/international\\_shorts.html](http://www.dnerve.com/IAFF_2008/films/international_shorts.html)).  
[peer review, international]

- October 5-19, 2008: A two-week research trip to the heart of Transylvania, Romania for the purpose of design and development of a theatrical piece titled *17* incorporating creative technologies and choreography, while drawing inspiration from the Transylvanian culture. Devised in collaboration with **Sue Ott Rowlands** (Virginia Tech) and Tibor Varszegi (Hungary). [international]
- October 2008: *Imitation Crabmeat Rag* selected by Virginia Tech's Theatre Workshop in Science, Technology and Society (TWISTS) *Choices and Challenges* online podcasts as the signature soundtrack, Blacksburg, VA. [regional]
- August 27, 2008: *with delicate risk* audio-visual work (in collaboration with visual artist Dane Webster) performance at the *International Computer Music Conference* (ICMC) (<http://www.icmc2008.net>) in Belfast, UK. [peer review, international]
- May 30-June 8 2008: *with delicate risk* audio-visual work (in collaboration with visual artist Dane Webster) performance at the *Brooklyn International Film Festival* (<http://www.wbff.org/films/detail.asp?fid=835>), New York, NY. [peer review, national]
- May 9, 2008: *Gaudeamus* chamber composition performance at Virginia Tech spring Commencement, Blacksburg, VA. [commission, local]
- April 25-May 1, 2008: *with delicate risk* audio-visual work (in collaboration with visual artist Dane Webster) performance at the *Athens International Film Festival* (<http://www.athensfest.org/>), Athens, Ohio. [peer review, national]
- April 19, 2008: *air.crane.moo.latte.runway* interactive multimedia work (in collaboration with Actor/Director Sue Ott Rowlands and visual artist Carol Burch-Brown) premiere at the *Digital iD*, Virginia Tech Department of Music Digital Interactive Sound & Intermedia Studio (DISIS) multimedia event (part of Virginia Tech's Arts Fusion festival), Blacksburg, VA. [local]
- April 19, 2008: *iteration13* interactive audio-visual work for tap dancer (Ann Kilkelly), visual artist (Carol Burch-Brown), and camera and interactive computer (**Ivica Ico Bukvic**) premiere at Virginia Tech Department of Music Digital Interactive Sound & Intermedia Studio (DISIS) multimedia event (part of Virginia Tech's Arts Fusion festival), Blacksburg, VA. [local]
- April 19, 2008: *derelects of time* audio-visual work for trombone, interactive computer and 3D visuals premiere at the *Digital iD*, Virginia Tech Department of Music Digital Interactive Sound & Intermedia Studio (DISIS) multimedia event (part of Virginia Tech's Arts Fusion festival), Blacksburg, VA. [commission, local]

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- April 3, 2008: *with delicate risk* audio-visual work (in collaboration with visual artist Dane Webster) performance at the *Society for Electro-Acoustic Music in the United States (SEAMUS) 2008* conference in Salt Lake City, Utah. [peer review, national]
  - December 14, 2007: *Gaudeamus* chamber composition performance at VT fall Commencement, Blacksburg, VA. [commission, local]
  - December 1, 2007: *with delicate risk* audio-visual work (in collaboration with visual artist Dane Webster) premiere at the *Digital iD*, Virginia Tech Department of Music Digital Interactive Sound & Intermedia Studio (DISIS) multimedia event (part of Virginia Tech's Arts Fusion festival), Blacksburg, VA. [local]
  - December 1, 2007: *SlipStreamScapes V: Lullaby* performance at the *Digital iD*, Virginia Tech Department of Music Digital Interactive Sound & Intermedia Studio (DISIS) multimedia event (part of Virginia Tech's Arts Fusion festival), Blacksburg, VA. [local]
  - December 1, 2007: *heads will roll* work-in-progress multimedia installation demo at the *Digital iD*, Virginia Tech Department of Music Digital Interactive Sound & Intermedia Studio (DISIS) multimedia event (part of Virginia Tech's Arts Fusion festival), Blacksburg, VA. [local]
  - November 16, 2007: *SlipStreamScapes V: Lullaby* lecture recital at the national *College Music Society* conference in Salt Lake City, Utah. [peer review, national]
  - November 8, 2007: *Nuclear Power Play*, an evening-long theatrical play by Virginia Tech's Theatre Workshop in Science, Technology and Society (TWISTS) featuring collaborative teams from Theatre, Art, Music, and freelance regional artists. Commission through the *Institute for Society, Culture and Environment* grant to compose music, arrange parts for performers, produce sound effects, rehearse, coordinate and perform all aural content live, Blacksburg, VA. [commission, regional]
  - November 7, 2007: *Nuclear Power Play*, an evening-long theatrical play by Virginia Tech's Theatre Workshop in Science, Technology and Society (TWISTS) featuring collaborative teams from Theatre, Art, Music, and freelance regional artists. Commission through Virginia Tech *Institute for Society, Culture and Environment* grant to compose music, arrange parts for performers, produce sound effects, rehearse, coordinate and perform all aural content live, Blacksburg, VA. [commission, regional]
  - November 8, 2007: *Soul* interactive electroacoustic composition for voice (performed by Theodore Sipes), computer, and hyperinstrument (**Ivica Ico Bukvic**) performance at Virginia Tech, Blacksburg, VA. [commission, local]
  - October 24, 2007: *Out of Doors Suite Part 2* audio-visual work performance at University of North Carolina Greensboro *New Music Festival*, Greensboro, NC. [invitation, regional]
  - October 20, 2007: *Soul* interactive electroacoustic composition for voice (performed by Theodore Sipes), computer, and hyperinstrument

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- (**Ivica Ico Bukvic**); three performances at Virginia Tech as part of the *Ut Prosim* program, Blacksburg, VA. [commission, local]
- October 4, 2007: *Soul* interactive electroacoustic composition for voice (performed by Theodore Sipes), computer, and hyperinstrument (**Ivica Ico Bukvic**) performance at Radford University, Radford, VA. [commission, regional]
  - September 20, 2007: *Soul* interactive electroacoustic composition for voice (performed by Theodore Sipes), computer, and hyperinstrument (performed by Dr. Tracy Cowden) performance at the Grand Valley State University, Grand Rapids, Michigan. [commission, national]
  - September 18, 2007: *Soul* interactive electroacoustic composition for voice (performed by Theodore Sipes), computer, and hyperinstrument (performed by Dr. Tracy Cowden) performance at the University of Michigan, Ann Arbor, Michigan. [commission, national]
  - May 11, 2007: *Gaudeamus* chamber composition performance at VT spring Commencement, Blacksburg, VA. [commission, local]
  - May 15, 2007: *All Your Sprache Are Belong To Us* electroacoustic composition programmed on WOBC radio station, Oberlin, Ohio. [invitation, national]
  - May 12, 2007: *Pandora* interactive audio-visual work for computer and touchless hyperinstrument (**Ivica Ico Bukvic**) performance at Oberlin College festival. [invitation, national]
  - April 29, 2007: *Soul* interactive electroacoustic composition for voice (performed by Theodore Sipes), computer, and hyperinstrument (**Ivica Ico Bukvic**) premiere at the *Digital iD*, Virginia Tech Department of Music Digital Interactive Sound & Intermedia Studio (DISIS) multimedia event (part of Virginia Tech's *Arts Fusion* festival), Blacksburg, VA. [commission, local]
  - April 29, 2007: *Pandora* interactive audio-visual work for computer and touchless hyperinstrument premiere (performed by composer) at *Digital iD*, Virginia Tech Department of Music Digital Interactive Sound & Intermedia Studio (DISIS) multimedia event (part of Virginia Tech's *Arts Fusion* festival), Blacksburg, VA. [local]
  - April 3, 2007: *SlipStreamScapes III: The Sea* interactive electroacoustic composition for guitar and computer programmed on Technical University campus radio station as part of the *Linux Audio Conference* program, Berlin, Germany. [peer review, international]
  - March 10, 2007: *Chalybs* interactive electroacoustic composition for computer and hyperinstrument (performed by composer) premiere at the *Society for Electro-Acoustic Music in the United States (SEAMUS)* 2007 conference in Ames, Iowa. [peer review, national]
  - January 31, 2007: *Out of Doors Suite Part 2* audio-visual work performance at Stanford University's *Popcorn!* Concert, Stanford, CA. [invitation, national]
  - December 15, 2006: *Gaudeamus* chamber composition premiered at the December VT Commencement, Blacksburg, VA. [commission, local]

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- November 10, 2006: *SlipStreamScapes I: Ruins* electroacoustic composition for voice and computer performance at Virginia Tech's *National Association of Schools of Music (NASM)* concert, Blacksburg, VA. [invitation, local]
  - November 8, 2006: *All Your Sprache Are Belong To Strauss* electroacoustic composition performed as part of the ÉuCuE concert series at Concordia University, Quebec, Canada. [invitation, international]
  - November 4, 2006: *Out of Doors Suite Part 2* audio-visual work performance at University of Richmond's *Third Practice* festival, Richmond, VA. [invitation, regional]
  - November 8, 2006: *All Your Sprache Are Belong to Strauss* electroacoustic composition performed at the *International Computer Music Conference (ICMC)*, New Orleans, Louisiana. [peer review, international]
  - November 6, 2006: *Symmetries* interactive electroacoustic work for violin, computer, and hyperinstrument (**Ivica Ico Bukvic**) choreographed by Barbara Hayley's *NewComb Dance Company* (Tulane University) and performed by Daniel Mason (University of Kentucky) at the *International Computer Music Conference (ICMC)*, New Orleans, Louisiana. [peer review, international]
  - September 14, 2006: *All Your Sprache Are Belong To Strauss* electroacoustic composition performed at *Fylkingen Festival*, Stockholm, Sweden. [peer review, international]
  - August 2006: Opening electroacoustic tune for the *FreeCol* video game soundtrack project released on the Internet. [commission, international]
  - April 25, 2006: *Out of Doors Suite Part 2* audio-visual work performance at Virginia Tech's *Arts Fusion* festival, Blacksburg, VA. [invitation, local]
  - April 2006: *Self-Portrait* visual work presented as part of the Cyberart Show, Blacksburg, VA. [invitation, local]
  - April 8, 2006: *Legisonitus #1: Gone in 8 Minutes and 11.527 Seconds* electroacoustic composition performance at *Sonic Explorations* concert series, Cincinnati, OH. [invitation, national]
  - March 31, 2006: *Out of Doors Suite Part 2* audio-visual work performed at the *Society for Electro-Acoustic Music in the United States* annual conference in Eugene, OR. [peer review, national]
  - March 30, 2006: *All Your Sprache Are Belong To Strauss* electroacoustic composition premiered at the *Society for Electro-Acoustic Music in the United States (SEAMUS)* 2006 conference, Eugene, OR. [peer review, national]
  - January 20, 2006: *Out of Doors Suite Part 2* audio-visual work performed at the National Center for Musical Creation (GMEM) *TRANS'ELECTROACOUSTIQUE* festival (<http://gmem.free.fr/evenements/archives/intramuros.htm>), Marseille, France. [invitation, international]

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## 11. Other papers and reports

- **Bukvic, I.** (2007). "iCulture." *Vennue*, Roanoke, VA, Blackmediagroup, 1(Nov.). [commission, regional]

## 13. Papers presented at professional meetings

- **Bukvic, I.** (2008). "libALSA, libJACK,... lib-what? I Just Want To Do My Work." Keynote at the 25<sup>th</sup> *Tonmeistertagung* conference, Leipzig, Germany, 274-277, November 13-16, 2008 ([http://www.tonmeister.de/tmt/index.php?tmtid=2008&cid=np&pg=congress\\_d8&lang=en&pga=linux\\_in\\_audio](http://www.tonmeister.de/tmt/index.php?tmtid=2008&cid=np&pg=congress_d8&lang=en&pga=linux_in_audio)). [international, invitation]
- **Bukvic, I.** and T. Sipes. (2008). "Communal Performance Art through Technology: A Study of *Soul* Composition for Baritone, Computer, and Audience." Lecture recital at the *College Music Society National Conference*, Atlanta, Georgia, September 25-28, 2008. [peer review, national]
- **Bukvic, I.** and T. Cowden. (2007). "Complementing Traditional Performance Idiom with Contemporary Technology—A Study of *SlipStreamScapes V: Lullaby* Interactive Electroacoustic Piece for Two Pianos and Interactive Computer." *College Music Society National Conference*, Salt Lake City, UT, November 15-18, 2007. [peer review, national]
- **Bukvic, I.** and R. Gareus. (2007). "Integrating Documentation, End-User Support, and Developer Resources using \*.linuxaudio.org." *Linux Audio Conference*, Technical University, Berlin, Germany, March 22-25, 2007. [peer review, international]
- **Bukvic, I.** "Linuxaudio.org — Who, What, and Why?" *Linux Audio Conference*, Karlsruhe, Germany, April 27-30, 2006, (abstract available at <http://lac.zkm.de/2006/abstracts.shtml>). [peer review, international]
- **Bukvic, I.**, S. Betz, P. Marsh and D. Fogel. (2008). Wake Forest Intelligent Sustainable Space Multimedia Installation Project prototype showcase as part of the *Workplace Strategies* booth at the University of North Carolina Greensboro's *Design, Art and Technology Symposium* (DATS), Greensboro, NC, March 27-29, 2008 (<http://dats.uncg.edu/>). [national, invitation].
- **Bukvic, I.** (2007) "Pebble Space: An Intelligent Communal and Collaborative Space interactive multimedia installation." A proposal to the Wake Forest MBA and its partners for the new downtown Charlotte seven-building construction project, Charlotte, NC, September 20, 2009. [national]

## C. Sponsored research and other grant awards

- April 2010: \$5,300 (100%) grant from Virginia Tech's Institute for Society, Culture and Environment (ISCE), Arts Initiative, Electrical &

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- Computer Engineering (ECE), and Center for Human-Computer Interaction (CHCI) in support of the spring *Linux Laptop Orchestra* (L2Ork) Midwest tour.
- April 2010: \$3,000 (100%) supplemental Education Enhancement Grant for the *Interactive Taiji* Education Enhancement grant (EECG) sponsored by the Virginia Tech Arts Initiative. Includes compensation for one graduate assistant (Matthew Komelski) and one undergraduate student researcher. Research team: **Ivica Ico Bukvic**, Isabel Bradburn.
  - February-May 2010: \$20,000 (100%) external grant through the *Boys & Girls Club* of Roanoke, VA (sponsored by *21<sup>st</sup> Century* and *Bank of America*) for the creation of the satellite laptop orchestra. Research team: **Ivica Ico Bukvic**, Eric Standley. Funds used for materials and sponsoring of three undergraduate student researchers.
  - January 5, 2010: \$250 (100%) donation by the Philips family towards the Linux Laptop Orchestra (L2Ork). Research team: **Ivica Ico Bukvic**, Tom Martin.
  - Fall 2009: \$5,000 (100%) Virginia Tech Institute for Distance and Distributed Learning grant for the development of an online distance learning system based on *Interactive Taiji* for teaching Taiji. Research team: **Ivica Ico Bukvic**, Isabel Bradburn, and Matthew Komelski.
  - Fall 2009: \$1,150 (100%) Virginia Tech School of Performing Arts and Cinema (SOPAC) grant for attending of the *TEDxMidAtlantic* (TEDx) conference and *Electronic Music Midwest* (EMM) festival.
  - Fall 2009: \$1,500 (100%) Virginia Tech Foundation International Travel Supplemental Grant (ITSG) (\$1,000), and a College of Liberal Arts & Human Sciences (CLAHS) Dean's matching grant (\$500) to offset costs of attending International Computer Music Conference in Montreal, Canada.
  - Summer 2009: \$149,648 (25%) awarded "EAGER: Drummer Game: A Massive-Interactive Socially-Enabled Strategy Game" proposal to the National Science Foundation. Research team: **Yong Cao**, Francis Quek, Ivica Bukvic, Dane Webster.
  - Summer 2009: \$20,000 (50%) Virginia Tech Institute for Critical Technology and Applied Science (ICTAS) commission (in collaboration with Prof. Steve Bickley) for an interactive aural sculpture installation to be placed in the foyer of the new on-campus ICTAS building.
  - Summer 2009: \$9,000 (100%) Virginia Tech Institute for Critical Technology and Applied Science (ICTAS) grant for the Linux Laptop Orchestra (L2Ork). Research team: **Ivica Ico Bukvic**, Tom Martin.
  - Summer 2009: \$8,000 (100%) Virginia Tech College of Liberal Arts & Human Sciences (CLAHS) Dean grant for the Linux Laptop Orchestra (L2Ork). Research team: **Ivica Ico Bukvic**, Tom Martin.
  - Summer 2009: \$2,031 (100%) Virginia Tech School of Education (SOE) grant for the Linux Laptop Orchestra (L2Ork). Research team: **Ivica Ico Bukvic**, Tom Martin.
  - Summer 2009: \$4,000 (100%) Virginia Tech Center for Instructional Development and Educational Research (CIDER, formerly known as CEUT)

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- grant for the Linux Laptop Orchestra (L2Ork). Research team: **Ivica Ico Bukvic**, Tom Martin.
- Summer 2009: \$1,000 (100%) Music Dept. grant for the Linux Laptop Orchestra (L2Ork). Research team: **Ivica Ico Bukvic**, Tom Martin.
  - Summer 2009: \$3,000 (50%) Virginia Tech Collaborative for Creative Technologies in the Arts and Design (CCTAD) grant towards for the Linux Laptop Orchestra (L2Ork). Research team: **Ivica Ico Bukvic**, Eric Standley.
  - Spring 2009: \$20,000 (100%) Virginia Tech Institute for Society, Culture and Environment (ISCE) summer scholars grant for the establishing of the Linux Laptop Orchestra (L2Ork). Sponsored summer undergraduate student assistantships for a total of \$3,000. As part of the Research Experience for Undergraduates (REU) CS department program also engaged three undergraduate students, including one visiting student from Rochester. Research team: **Ivica Ico Bukvic**, Tom Martin.
  - Spring 2009: \$2,303 (100%) Virginia Tech Vice President of Information Technology grant (\$2,303) for the purchase of MSI Wind netbooks for the Linux Laptop Orchestra (L2Ork). Research team: **Ivica Ico Bukvic**, Tom Martin.
  - Spring 2009: est. \$2,000 (100%) Negotiated two corporate partnerships for the Linux Laptop Orchestra (L2Ork), including seven laptops sponsored by MSI and eight soundcards sponsored by Sweetwater. Additional hardware sponsored "at cost." Research team: **Ivica Ico Bukvic**, Tom Martin.
  - Spring 2009: \$930 (100%) Virginia Tech School of Performing Arts & Cinema (SOPAC) grant for sponsoring a visit of a Hungarian artist Tibor Varszegi for the spring DISIS event theatrical multimedia piece production in collaboration with Sue Ott Rowlands.
  - Summer 2008: \$5,000 (60%) *Interactive Taiji* Education Enhancement grant (EECG) sponsored by the Virginia Tech Arts Initiative. Includes compensation for one graduate assistant (Matthew Komelski) and one undergraduate student researcher (Sabrina Killian). Research team: **Ivica Ico Bukvic**, Isabel Bradburn, Denis Gracanin, Kelly Parkes.
  - Summer 2008: \$10,000 (100%) *Sustainable, Intelligent Environment for Communal Interaction with Art and Culture* \$10,000 phase 2 grant by Virginia Tech Institute for Society, Culture, and Environment (ISCE) and Institute for Critical Technology and Applied Science (ICTAS), dealing with physical prototyping of installation modules proposed in phase I. Research team: **Ivica Ico Bukvic**, Dan Fogel (Wake Forest).
  - Spring 2008: \$14,200 (67%) *Sustainable, Intelligent Environment for Communal Interaction with Art and Culture* \$14,200 external grant. Pilot project sponsored by Wake Forest for the virtual rendition of the multimedia installation concept. Research Team: **Ivica Ico Bukvic**, Dane Webster, Scott Betz (Winston-Salem), Peter Marsh (Workplace Strategies), Dan Fogel (Wake Forest).
  - Fall 2007, Spring 2008: \$400 (100%) Virginia Tech Center for Instructional Development and Educational Research (CIDER, formerly

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- known as CEUT) Faculty Study Group (FSG) grant for an interdisciplinary collaboration study group involving College of Engineering, Architecture, and College of Liberal Arts & Human Sciences.
- Fall 2007: \$500 (100%) Virginia Tech Collaborative for Creative Technologies in the Arts and Design (CCTAD) (\$250) and the Department of Music matching grant (\$250) for the Soundtrack and Effects Composition course field trip and recording session in Williamsburg, VA.
  - Fall 2007: \$1,000 (100%) Virginia Tech Foundation International Travel Supplemental Grant (ITSG) (\$500), and a College of Liberal Arts & Human Sciences (CLAHS) Dean's matching grant (\$500) to offset costs of attending International Computer Music Conference in Copenhagen, Sweden.
  - Fall 2007: \$975,978 (Singapore currency) (Collaborator) *Networked Ensemble* proposal in collaboration with National University of Singapore and Stanford University. Research team: **Lonce Wyse** (National University of Singapore), Chee-Kong Ho, Kevin McGee, Damien Lock, Roger Zimmermann, Michael Gurevich, Ivica Bukvic.
  - Summer 2007: \$20,000 (50%) Institute for Society, Culture and Environment (ISCE) summer scholars grant for the Science and Mathematics Inclusive Learning and Engagement (SMILE) study. Sponsored four undergraduate music assistantships for a total of \$1,000. Research team: **Carlos Evia**, Ivica Bukvic.
  - Summer 2007: est. \$150,000 (15%) Arts Museum of Western Virginia grant as part of the Digital Art Research Collective (DARC) group to develop an interactive multimedia art installation for the grand opening of the new museum. Sponsored four graduate and two undergraduate assistantships. Credit and PI responsibility equally distributed among participants. Research Team: **Truman Capone**, Carol Burch-Brown, Ivica Ico Bukvic, Steve Harrison, Joy Rosenthal, Simone Paterson, Dane Webster.
  - Summer 2007: \$20,000 (100%) Institute for Society, Culture and Environment (ISCE) summer scholars grant for the pilot study utilizing Aural Matrix Haptic Display Interface. Sponsored two summer undergraduate music student assistantships for a total of \$3,200. As part of the Research Experience for Undergraduates (REU) Computer Science (CS) department program also engaged a visiting undergraduate CS student from Oberlin College. Research team: **Ivica Ico Bukvic**, Denis Gracanin, Francis Quek.
  - Spring 2007: \$2,400 (100%) Science and Mathematics Inclusive Learning and Engagement (SMILE) project collaborator on preliminary research. Secured two student assistantships.
  - Spring 2007: est. \$25,000 (50%) Virginia Tech Stakeholders Project. Generation of promotional materials and multimedia content for the purpose of raising \$29 million for the new Performing Arts Center. Sponsored two student undergraduate music assistantships. Research team: **Dane Webster**, Ivica Bukvic.

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- Fall 2006-Winter 2007: \$1,200 (100%) Virginia Tech Collaborative for Creative Technologies in the Arts and Design (CCTAD) branding project sponsored by CCTAD/Art & Art History. Design of audio-visual branding materials for CCTAD including website and other promotional materials. Oversight of four CCTAD GTAs (<http://www.cctad.vt.edu>).
  - Fall 2006: \$500 (100%) Virginia Tech College of Liberal Arts & Human Sciences (CLAHS) grant writing workshop participant.
  - Fall 2006: \$12,500 (100%) Virginia Tech Collaborative for Creative Technologies in the Arts and Design (CCTAD) complementing grant for DISIS development.
  - Fall 2006: \$45,000 (25%) Virginia Tech Collaborative for Creative Technologies in the Arts and Design (CCTAD)/Digital Arts Research Collective (DARC) equipment grant proposal to the School of Visual Arts (\$45,000). Research team: **Truman Capone**, Ivica Ico Bukvic, Simone Paterson, Dane Webster.
  - Fall 2006: \$32,000 (100%) Virginia Tech College of Liberal Arts & Human Sciences (CLAHS) Dean equipment grant for Aural Matrix Haptic Display Interface exploratory research involving CHCI, Engineering, Assistive Technology and Music Technology. **Ivica Ico Bukvic**, Francis Quek, Tom Martin, William Holbach, Michael Dunston.
  - Fall 2006, Spring 2007: \$300 (100%) Virginia Tech Center for Instructional Development and Educational Research (CIDER, formerly known as CEUT) Faculty Study Group (FSG) grant for an interdisciplinary collaboration study group involving College of Engineering, Architecture, College of Liberal Arts & Human Sciences (CLAHS), and Music.
  - Spring 2006: \$1,100 (100%) Virginia Tech Foundation International Travel Supplemental Grant (ITSG) (\$800), and a College of Liberal Arts & Human Sciences (CLAHS) Dean's matching grant (\$300) to offset costs of attending 4<sup>th</sup> international Linux Audio Conference in Karlsruhe, Germany.
  - Spring 2006: \$3,000 (100%) College of Liberal Arts & Human Sciences (CLAHS) Faculty Research Grant for producing commissioned multimedia interactive work.

#### D. Invited keynote presentations or lectures

- April 26-27, 2010: Visiting lecturer at the Louisiana State University discussing own creative work. [invitation, national]
- February 17, 2010: Guest lecturer at *Biomusical Engineering* (UH-3004H) class taught by Virginia Tech Professor Emeritus Dr. Schneck discussing own research. [invitation, local]
- January 19, 2010: Guest lecturer at the College-Conservatory of Music, University of Cincinnati discussing own creative work, including individual composition lessons with graduate computer music students, Cincinnati, OH. [invitation, national]
- June 22-25, 2009: Virginia Tech Summer Band Camp lecturer in computer music for middle and high school band camp students, Blacksburg, VA. [invitation, regional]

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- January 23, 2009: Lecture on the DREAM technology and artistic output presented as part of the University of Virginia Colloquium series, Charlottesville, VA. [regional, invitation]
  - January 9, 2009: Taubman Museum of Art noon lecture series on my contributions to the Digital Arts Research Collective's *Revo:oveR* exhibit, Roanoke, VA. [regional, invitation]
  - November 11, 2008: *The Art of Composer and Multimedia Sculptor* presentation at the *50 Years of Computing at the University of Cincinnati* conference, Cincinnati, OH ([http://www.uc.edu/conferencing/events/computing/50YrsComputing\\_UC12.pdf](http://www.uc.edu/conferencing/events/computing/50YrsComputing_UC12.pdf)). [national, invitation]
  - September 30, 2008: Presenting recent compositions at the Music Dept. composition seminar, Blacksburg, VA. [local]
  - June 23-26 2008: Virginia Tech Summer Band Camp lecturer in computer music for middle and high school band camp students, Blacksburg, VA. [invitation, regional]
  - June 4, 2008: *Building Communities Through the Arts* presenter (part of the *Virginia Tech Arts Initiative*) discussing use of music through ambient art to enhance architectural spaces, South Boston, VA (<http://www.svhed.org/arts/videohighlights.html>). [invitation, regional]
  - March 28, 2008: Visiting lecturer at the Duke University presenting own artistic output and research, Durham, NC. [invitation, national]
  - February 4, 2008: Visiting lecturer at the Yong Siew Toh Conservatory of Music at the National University of Singapore presenting own artistic output and research. [invitation, international]
  - November 2, 2007: Visiting lecturer at the National Science Foundation's CISE (Computer and Information Science and Engineering) *Pathways to Revitalized Undergraduate Computing Education* (CPATH) workshop organized by Virginia Tech's Department of Computer Science (CS) and Center for Human-Computer Interaction (CHCI) discussing cross-pollination of music and computer science CS/CHCI), Blacksburg, VA. [invitation, national]
  - October 24, 2007: Visiting lecturer at the University of North Carolina Greensboro (UNCG) *New Music Festival* (NMF), Greensboro, NC. [invitation, national]
  - August 29, 2007: "Computer Systems in Music Education" Session Chair at the *International Computer Music Conference* (ICMC), Copenhagen, Denmark. [invitation, international]
  - May 14, 2007: Visiting lecturer at the University of Cincinnati, College-Conservatory of Music presenting own artistic output and research, Cincinnati, OH. [invitation, national]
  - April 6, 2007: Visiting lecturer at the Virginia Tech Computer Science (CS) and Center for Human-Computer Interaction (CHCI) Seminar presenting use of computer science in own creative work, Blacksburg, VA. [invitation, local]

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- February 12, 2007: Visiting lecturer at the Virginia Tech Art & Art History Time-Based Media class discussing use of sound in Internet-driven new media projects, Blacksburg, VA. [invitation, local]
  - Fall 2006: Visiting lecturer at the Art Museum of Western Virginia as part of the "Genius of the Place: Land and Identity in Contemporary Art" lecture series discussing own creative work and its historical influences within the context of interactive installation art, Roanoke, VA. [invitation, regional]
  - November 14, 2006: Visiting lecturer at the Virginia Tech Computer Science *Cyberarts* class presenting Max/MSP/Jitter software, Blacksburg, VA. [invitation, local]
  - June 6, 2006: Visiting lecturer at mama.mi2.hr Croatian multimedia institute discussing own creative work within the context of free open-source community of users, developers, and artists (<http://www.mi2.hr/index.php?page=news&id=224>), Zagreb, Croatia. [invitation, international]
  - May 5, 2006: Visiting lecturer at the University of Manchester presenting own artistic output and research, Manchester, UK. [invitation, international]

## **E.** Editorships, curatorships, etc.

### **1.** Journals or other learned publications

- February 2010: Paper reviewer for the New Interfaces for Musical Expression 2010 Conference (Sydney, Australia).
- February 2010: Paper reviewer for the 8th international Linux Audio Conference (Utrecht, Netherlands).
- January 2010: Paper reviewer for the International Computer Music Conference (New York, NY).
- December 2008: Paper reviewer for the 7th international Linux Audio Conference (Parma, Italy).
- December 2007: Paper reviewer for the 6th international Linux Audio Conference (Cologne, Germany).
- June 2007: Paper reviewer for the International Computer Music Conference (Copenhagen, Denmark).
- January 2007: Paper reviewer for the 5<sup>th</sup> international Linux Audio Conference (Berlin, Germany).
- January 2006: Paper reviewer for the 4<sup>th</sup> international Linux Audio Conference (Karlsruhe, Germany).

## **G.** Intellectual properties

### **1.** Software

- Spring 2010: published *Linux Laptop Orchestra* (L2Ork) collection of abstractions for Pure-Data (<http://www.puredata.info>) open source

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software for real-time graphical dataflow programming environment for audio, video, and graphical processing, downloadable from:

- [http://l2ork.music.vt.edu/main/?page\\_id=56](http://l2ork.music.vt.edu/main/?page_id=56)
- Spring 2010: published *Linux Laptop Orchestra* (L2Ork) pd.tk user interface improvement for Pure-Data (<http://www.puredata.info>) open source software for real-time graphical dataflow programming environment for audio, video, and graphical processing, downloadable from:
  - [http://l2ork.music.vt.edu/main/?page\\_id=56](http://l2ork.music.vt.edu/main/?page_id=56)
- Spring 2010: published several new external objects for Pure-Data (<http://www.puredata.info>) open source software for real-time graphical dataflow programming environment for audio, video, and graphical processing, providing new functionality. Objects include *disis\_wiimote*, *disis\_phasor~*, *disis\_netsend*, and *disis\_netreceive*. All objects are downloadable from:
  - [http://l2ork.music.vt.edu/main/?page\\_id=56](http://l2ork.music.vt.edu/main/?page_id=56)
- Spring 2010: submitted six patches to the Pure-Data (<http://www.puredata.info>) open source software for real-time graphical dataflow programming environment for audio, video, and graphical processing, fixing bugs that cause crashes and/or other undesired behavior.
- Fall 2009: submitted four patches to the Pure-Data (<http://www.puredata.info>) open source software for real-time graphical dataflow programming environment for audio, video, and graphical processing, fixing bugs that cause crashes and/or other undesired behavior.
- February 2009:  $\mu$  [*myu*] *Max-Unity3D Interoperability Toolkit* version 1.00 released under a GNU GPL license. For more info please visit <http://ico.bukvic.net/Max/>, <http://forum.unity3d.com/viewtopic.php?t=19567>, and <http://www.cycling74.com/forums/index.php?t=msg&th=38286&start=0&rid=0&S=6c8010472f3a408a0257f91ca4661fca>.
- February 2009: *disis\_munger~* version 1.3.2 (based on *munger1~*) cross-platform real-time granular synthesis external for Max/MSP and PD software released for public consumption under the GPL license. For more info, please visit <http://ico.music.vt.edu/Max/>.
- February 2009: *disis.aka.wiiremote* Max/MSP external version 1.04 released including series of bug fixes. For more info please visit <http://ico.music.vt.edu/Max/>.
- February 2009: networking patch for the *Neverball* open source game, allowing for usability testing of experimental hyperinstruments and interactive control surfaces (used for testing of the *disis.aka.wiiremote* external). For more info please download [http://ico.music.vt.edu/Misc/neverball\\_networking\\_hack.tar.gz](http://ico.music.vt.edu/Misc/neverball_networking_hack.tar.gz).
- January 2009: *disis.aka.wiiremote* Max/MSP external version 1.02 released offering connectivity with Nintendo Wii Fit balance board. For more info please visit <http://ico.music.vt.edu/Max/>.

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- January 2009: *Stochastic Phrase Density Structure Generator* source code released under the GNU GPL license. For more info please visit <http://ico.music.vt.edu/Linux/>.
  - December 2008: *disis.aka.wiiremote* Max/MSP external version 1.00 released offering connectivity with Nintendo Wii Fit balance board. For more info please visit <http://ico.music.vt.edu/Max/>.
  - December 2008: submitted a patch to Pure-Data (<http://www.puredata.info>) open source software for real-time graphical dataflow programming environment for audio, video, and graphical processing, fixing a bug that prevented use of a webcam as a gesture input on a MSI Wind netbook.
  - June 2008: *callitwhatchawant* Max/MSP application released as an example of generative composition for the *Singing Darwin* project. Downloadable as public domain software from <http://ico.music.vt.edu/Max/>.
  - January 2008: *Recorder9* Max/MSP algorithm for real-time audio loop recording and processing released as public domain software. For more info, please visit <http://ico.music.vt.edu/Max/>.
  - June 2007: *Shaders Ahoy!* collection of real-time texture processing algorithms for Max/MSP/Jitter released for public consumption under the GPL license. For more info, please visit <http://ico.music.vt.edu/Max/>.
  - May 2007: *RTMix* interactive multimedia art composition, performance, and coaching software update released for public consumption under the GPL license. For more info please visit <http://ico.music.vt.edu/Linux/RTMix/RTMix-docs/>.
  - May 2007: *munger1~* cross-platform real-time granular synthesis external for Max/MSP and PD software released for public consumption under the GPL license. For more info, please visit <http://ico.music.vt.edu/Max/>.

## 2. Patents

- August 2008: Provisional patent on the sonification of shapes using Discrete Reconfigurable Aural Matrix (DREAM) interface. For additional info please consult supporting publications found in section [V. B.5](#).

## 3. Pre-Patent Disclosures

- December 2008: A method of enhancing existing aural cues commonly associated with human-computer interaction (e.g. desktops and portables) to provide greater additional information and lower cognitive load, while offering greater level of immersion.
- June 2008:  $\mu$  (mu) Max/MSP/Jitter & Unity3D interoperability toolkit.

## **VI. International and Professional Service and additional Outreach and Extension Activities**

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## B. Professional service accomplishments

### 1. Service as an officer of an academic or professional association

- 2009-present: re-elected *Society of Electroacoustic Music in the United States* (SEAMUS) board member and treasurer. [peer vote, national]
- Spring 2008: member of the School of the Performing Arts and Cinema working group. [invitation, local]
- Winter 2008: contributor to the Virginia Tech promotional media materials (video recording of an improvisation with Allan Weinstein). [invitation, national]
- October 2007: member of the Virginia Tech *Institute for Society, Culture and Environment* (ISCE) visioning session panel. [invitation, local]
- 2007-2009: elected *Society of Electroacoustic Music in the United States* (SEAMUS) board member and treasurer. [peer vote, national]
- 2005-2007: elected *Society of Electroacoustic Music in the United States* (SEAMUS) board member and treasurer. [peer vote, national]
- 2005-present: elected director of the international Linuxaudio.org consortium. [peer vote, international]

### 2. Other service to one's profession or field

- 2006-present: Organized Music Technology program tours as part of Virginia Tech Department of Music auditions for prospective students.
- May 14, 2010: Served as faculty usher volunteer for the Music Department at the Virginia Tech spring graduation commencement ceremony. [local]
- April 13, 2010: Organized Music Department Digital Interactive Sound & Intermedia Studio (DISIS) and *Linux Laptop Orchestra* (L2Ork) showcase as part of the Virginia Tech Undergraduate Research Institute. [invitation, local]
- March 31, 2010: Digital Interactive Sound & Intermedia Studio (DISIS) tour for Virginia Tech Professor Emeritus Dr. Schneck's *Biomusical Engineering* class (Virginia Tech Professor Emeritus). [invitation, local]
- October 5, 2009: submitted infrastructure proposal and use scenarios for the new Collaborative Performance Lab and Digital Interactive Sound and Intermedia Studio (DISIS), Blacksburg, VA. [invitation, local]
- March 21, 2009: VT Linux and Unix Users Group (VTLUUG) student organization lecture, Blacksburg, VA. [invitation, regional]
- March 5, 2009: Meeting with the Snohetta architect firm representatives to discuss needs of the new Creative Technologies DISIS facility, Blacksburg, VA. [invitation, local]
- May 5, 2008: Arts Initiative presentation for the Snohetta architect firm, Blacksburg, VA. [invitation, local]

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- **Bukvic, I.** and T. Cowden. (2008). "Bridging the gap" outreach proposal (accepted but not programmed) to the *College Music Society National Conference*, Salt Lake City, Utah, November 15-18, 2008. [peer review, national]
  - November 13, 2007: VT Linux and Unix Users Group (VTLUUG) student organization lecture. [invitation, regional]
  - November 1, 2007: Art for Our Sake panel member. [invitation, local]
  - October 12, 2007: one of the presenters at the CCTAD initiative meeting, Blacksburg, VA. [local]
  - March 21, 2007: Virginia Tech Women Composers Concert tech setup and coordination of tape part of an interactive tape and piano work by Alicyn Warren, Blacksburg, VA. [performance, invitation, local]
  - January 28, 2007: one of performers in a 2-evening Virginia Tech Department of Music performance event celebrating J.S. Bach's Well Tempered Clavier, Blacksburg, VA. [piano performance, invitation, local]

### 3. Professional meetings, panels, workshops, etc., led or organized

- June 23, 2008: Creative Technologies in the Arts Tour for prospective Virginia Tech Arts Initiative donors, Blacksburg, VA.
- December 6, 2007: Multimedia Mural demonstration featuring Touchless Interface to the Virginia Tech Stakeholders, Blacksburg, VA.
- December 3, 2007: Digital Interactive Sound & Intermedia Studio (DISIS) tour for the Virginia Tech College of Liberal Arts & Human Sciences (CLAHS) Dean, Blacksburg, VA.
- November 9, 2007: Digital Interactive Sound & Intermedia Studio (DISIS) and Collaborative for Creative Technologies in the Arts and Design (CCTAD) tours for prospective Performing Arts Center donors, Blacksburg, VA.
- October 30, 2007: DISIS open house for Virginia Tech Faculty and Students, Blacksburg, VA.
- October 20, 2007: *Ut Prosim* Digital Interactive Sound & Intermedia Studio (DISIS) showcase for Virginia Tech Alumni and Friends, Blacksburg, VA.
- November 15, 2006: organized *Sibelius* notation software on-campus demo, Blacksburg, VA.
- October 4, 2006: organized Collaborative for Creative Technologies in the Arts & Design (CCTAD) presentation on research by Virginia Tech's Vice-President for Research Bradford Fenwick, Blacksburg, VA.
- September 22, 2006: organized lecture by a visiting artist John Gerrard at Virginia Tech, Blacksburg, VA.
- April 13, 2006: organized Notion scoring software on-campus demo, Blacksburg, VA.

### C. Additional outreach and extension activities and outcomes

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**2. Professional achievements in program development, implementation, and evidence of impact**

- April 17, 2010: Spring *Linux Laptop Orchestra* (L2Ork) Digital Interactive Sound & Intermedia Studio (DISIS) benefit concert featured premiere of the *Boys & Girls Club* of Roanoke, VA satellite laptop orchestra designed and developed by Virginia Tech students. All proceeds of this event were donated to the *Boys & Girls Club*. The program also featured guest artists Ronald Coulter, Mark Engebretson, and Matthew Burtner.
- March 19, 2010: Organized *Linux Laptop Orchestra* (L2Ork) event as part of the partnership with the *Boys & Girls Club* of Roanoke, VA. 5<sup>th</sup> graders from the *Boys & Girls Club* were invited to Virginia Tech to participate in building red "ladybug" hemispherical speakers for their satellite laptop orchestra as well as rehearse with Virginia Tech L2Ork members. The event was filmed by the Virginia Tech media as well as regional FOX 21/27 TV station.
- February 27, 2010: Organized *Linux Laptop Orchestra* (L2Ork) showcase as part of the Kids Tech University: <http://kidstechuniversity.blogspot.com/2010/02/l2ork-worlds-first-linux-laptop.html>
- February-May, 2010: Organized *Linux Laptop Orchestra* (L2Ork) classes for the 5<sup>th</sup> graders of the *Boys & Girls Club* of Roanoke, VA, as part of the project sponsored by 21<sup>st</sup> Century and Bank of America (through *Boys & Girls Club*). The class was co-taught with a Virginia Tech student (Jonathan Utt).
- February-April 2009: Piloting of the *Interactive Taiji* project at the Craig County Public School (VA) as part of the PE curriculum.
- February 27, 2009: Consultant to the Gerreau Technology Center (Franklin Co., VA) on the implementation of the music technology curriculum into the K-12 education.
- September-October 2006: Consultant to the University of Wisconsin-Eau Claire computer music studio redesign.

**3. Outreach publications, including trade journals, newsletters, websites, journals, multimedia items, etc.**

- Ongoing: Expansion of Linuxaudio.org online resources:
  - Sites (in collaboration with Robin Gareus, IT specialist and Linuxaudio.org volunteer staff, Netherlands):
    - <http://linuxaudio.org>
    - <http://apps.linuxaudio.org>
    - <http://download.linuxaudio.org>
    - <http://docs.linuxaudio.org>
    - <http://git.linuxaudio.org>
    - <http://lad.linuxaudio.org>
    - <http://ladspavst.linuxaudio.org>

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- <http://lau.linuxaudio.org>
  - <http://lists.linuxaudio.org>
  - <http://lowlatency.linuxaudio.org>
  - <http://portal.linuxaudio.org>
  - <http://planet.linuxaudio.org>
  - <http://quicktoots.linuxaudio.org>
  - <http://stats.linuxaudio.org>
  - <http://wiki.linuxaudio.org>
  - Mailing Lists (in collaboration with Marc Olivier Barre, IT specialist and Linuxaudio.org volunteer staff, France):
    - <http://lists.linuxaudio.org/mailman/listinfo/consortium>
    - <http://lists.linuxaudio.org/mailman/listinfo/linux-audio-announce>
    - <http://lists.linuxaudio.org/mailman/listinfo/linux-audio-dev>
    - <http://lists.linuxaudio.org/mailman/listinfo/linux-audio-tuning>
    - <http://lists.linuxaudio.org/mailman/listinfo/linux-audio-user>
    - <http://lists.linuxaudio.org/mailman/listinfo/management>
    - <http://lists.linuxaudio.org/mailman/listinfo/open-video-user>
  - Winter 2010: Arranged for porting of the entire linuxaudio.org Web infrastructure to the CNS server blades free of charge to provide better stability, greater bandwidth, and redundant backup.
  - Winter 2010: Created Facebook site for the *Linux Laptop Orchestra* (L2Ork) (<http://www.facebook.com/group.php?gid=117918141555131>).
  - Summer 2008: Visual branding, design and implementation of new online resources for the *Linux Laptop Orchestra* (L2Ork) (<http://l2ork.music.vt.edu>).
  - Spring 2007: Implemented new Linuxaudio.org online resources, such as a hybrid community-driven online documentation prototype.
  - Spring 2007: Designed and implemented new online resources for the Digital Interactive Sound & Intermedia Studio (DISIS) (<http://disis.music.vt.edu>).
  - Fall 2006: Linuxaudio.org branding project in collaboration with Thorsten Wilms (industrial designer, Germany).
  - Spring 2006: in collaboration with Robin Gareus (IT specialist, Netherlands) moved Linuxaudio.org resources to be hosted by Virginia Tech's Music Department, including mailing lists, website, sub-sites, and documentation.

## VII. University Service

### B. Department, college, and university service, including administrative responsibilities

- 2008-present: Collaborative for Creative Technologies in the Arts & Design (CCTAD) Assistant Co-Director.
- Ongoing: Linuxaudio.org management, member and staff recruitment.

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- Ongoing: Music technology program recruitment and outreach.
  - Ongoing: server and content (sites and supporting mailing lists) management.
    - <http://disis.music.vt.edu> (averaging ~10,000 hits per month) including following mailing lists:
      - [http://disis.music.vt.edu/cgi-bin/mailman/listinfo/interactive\\_taiji](http://disis.music.vt.edu/cgi-bin/mailman/listinfo/interactive_taiji)
      - [http://disis.music.vt.edu/cgi-bin/mailman/listinfo/interactive\\_taiji\\_grants](http://disis.music.vt.edu/cgi-bin/mailman/listinfo/interactive_taiji_grants)
      - <http://disis.music.vt.edu/cgi-bin/mailman/listinfo/l2ork>
      - <http://disis.music.vt.edu/cgi-bin/mailman/listinfo/user>
    - <http://l2ork.music.vt.edu> (averaging ~40,000 hits per month)
    - <http://linuxaudio.org> (averaging 2 Terabytes or 2,000GB of traffic and ~700,000 hits per month). For additional info on content please consult [VI.C.3](#).
  - Ongoing: <http://www.youtube.com/vtdisis> online PR content management.
  - Ongoing: <http://www.facebook.com/group.php?gid=117918141555131> content management.
  - February 2010: Securing resources for and porting of the Linuxaudio.org server and supporting DISIS and L2Ork domains onto the Virginia Tech Network Attached Storage (NAS) and dedicated blade servers.
  - October 30-31, 2008: Part of Virginia Tech College of Liberal Arts & Human Sciences (CLAHS) delegation (headed by Dean Ott Rowlands) to Bangor University (Wales, UK) for the purpose of ratifying cooperation/collaboration/exchange agreement between the two institutions.

### C. Contributions to diversity

3. Mentoring, counseling, or advising students and student organizations
  - Fall 2007-Spring 2009: VT Linux and Unix Users Group (VTLUUG) student organization mentor.

## VIII. Work Under Review or In Progress

### A. Work submitted and under review

- Co-PI (20%) to a "Strategies Proposal: I'm a Scientist (not): Transforming Identity for STEM and ICT Career Development" proposal to National Science Foundation's ITEST program (\$1,166,457).
- PI (75%) to a "Collaborative Research: Sound Thinking: Integrating the 'Big Ideas' of Music and Computer Science" proposal to National Science Foundation's CCLI program (\$30,000).

### B. Work in progress

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- *VT Linux Laptop Orchestra.*
  - *Interactive Taiji* (working title): research project exploring cross-pollination of exercise, music, entertainment, gaming, and novel human-computer interaction technologies. [ongoing]
  - *Aural Painting Using Discrete REconfigurable Aural Matrix*: scientific and artistic research of dense anterior speaker array technologies. [ongoing]
  - *FreeCol*: video game soundtrack and effects project. [commission, international, ongoing]