

## What's New on the Wells Lab Website?

**Alternative website:** An alternative website has been set up and provides access to all the books and articles. The URL for the alternative website is:

<https://neuralgraphs.com/wellslabs/index.html> .

**New Link:** The Wells Lab website is now linked to the University of Idaho VIVO database. The VIVO database URL is <http://vivo.nkn.uidaho.edu/vivo/display/n89636> .

### Recent Books Added:

*The Idea of Justice*, Nov. 30, 2023, Richard B. Wells, posted 11/30/2023

*Mathematics and Empirical Science*, Dec. 24, 2019, Richard B. Wells, posted 12/24/2019.

*Faith and Critical Theology*, May 11, 2019, Richard B. Wells, posted 5/11/2019.

### Latest Papers Added:

"On the Dark Age Ancestry of the Wells Family," Richard B. Wells, Mar. 7, 2017, posted 3/7/2017

"The Consent of the Governed," Richard B. Wells, Dec., 2016, posted 12/12/2016

"Why People Think," Richard B. Wells, 2016, posted 11/14/2016

"The Challenge of Mini-Community," Richard B. Wells, 2014, posted 11/8/2016

"Heterarchical Organization and Management," Richard B. Wells, 2015, posted 11/30/2016

### On-Line Books by date of last update

#### 2023

*The Idea of Justice*, Nov. 30, 2023

<https://webpages.uidaho.edu/rwells/techdocs/The%20Idea%20of%20Justice/index.htm>

#### 2019

*Mathematics and Empirical Science*, Dec. 24, 2019, Richard B. Wells, posted 12/24/2019

<http://www.mrc.uidaho.edu/mrc/people/rwells/techdocs/Mathematics%20and%20Empirical%20Science/>

*Faith and Critical Theology*, May 11, 2019, posted 5/11/2019

<http://www.mrc.uidaho.edu/mrc/people/rwells/techdocs/Faith%20and%20Critical%20Theology/>

#### 2017

*Civic Free Enterprise*, Dec. 29, 2016, posted 12/29/2016.

<http://www.mrc.uidaho.edu/~rwells/techdocs/Civic%20Free%20Enterprise/>

#### 2016

*Carmichael Subdivision Irrigation System Handbook*, October 6, 2016, R.B. Wells, posted 10/6/2016.

<http://www.mrc.uidaho.edu/~rwells/techdocs/Carmichael%20Subdivision%20Irrigation%20System%20Handbook.pdf>

*Unabridged Glossary of the Critical Philosophy and Mental Physics*, 5th ed., R.B. Wells, (ed.), posted 1/30/2016

<http://www.mrc.uidaho.edu/~rwells/techdocs/Wells%20Glossary%20of%20Critical%20Philosophy%20and%20Mental%20Physics%205th%20Ed.pdf>

*30 Generations of Wells': An American Family's Story*, 2nd edition, 2016, Richard B. Wells, posted Jan. 5, 2016. Genealogical appendix updated Mar. 25, 2016.

<http://www.mrc.uidaho.edu/~rwells/techdocs/30%20Generations%20of%20Wells%202nd%20Ed.pdf>

## **2015**

*30 Generations of Wells': An American Family's Story*, 2015, Richard B. Wells, posted Feb. 4, 2015.

<http://www.mrc.uidaho.edu/~rwells/techdocs/30%20Generations%20of%20Wells.pdf>

## **2014**

*The Institution of Public Education: Volume III of The Idea of Public Education*, 2014, Richard B. Wells, posted Oct. 28, 2014.

<http://www.mrc.uidaho.edu/~rwells/techdocs/The%20Institution%20of%20Public%20Education/>

*Unabridged Glossary of the Critical Philosophy and Mental Physics*, 4th Ed. 2014, R.B. Wells (ed.), posted 10/30/2014; last updated 10/30/2014;

<http://www.mrc.uidaho.edu/~rwells/techdocs/Wells%20Glossary%20of%20Critical%20Philosophy%20and%20Mental%20Physics%204th%20Ed.pdf>

## **2013**

*Unabridged Glossary of the Critical Philosophy and Mental Physics*, 3rd Ed. 2013, R.B. Wells (ed.), posted 8/04/2013; last updated 8/04/2013;

[http://www.mrc.uidaho.edu/~rwells/techdocs/Wells Glossary of Critical Philosophy and Mental Physics 3rd Ed.pdf](http://www.mrc.uidaho.edu/~rwells/techdocs/Wells%20Glossary%20of%20Critical%20Philosophy%20and%20Mental%20Physics%203rd%20Ed.pdf)

*A Minimal ART Network for Comparison*, May 2, 2013, B. (Lungsi) Sharma, posted May 2, 2013

[http://www.mrc.uidaho.edu/~rwells/techdocs/A Minimal ART network for comparison/](http://www.mrc.uidaho.edu/~rwells/techdocs/A%20Minimal%20ART%20network%20for%20comparison/)

*Critique of the American Institution of Education: Volume II of The Idea of Public Education*, 2013, Richard B. Wells, posted 05/06/2013

[http://www.mrc.uidaho.edu/~rwells/techdocs/Critique of the American Institution of Education/](http://www.mrc.uidaho.edu/~rwells/techdocs/Critique%20of%20the%20American%20Institution%20of%20Education/)

## **2012**

*Education and Society: Volume I of The Idea of Public Education*, 2012, R.B. Wells, posted 12/21/2012

[www.mrc.uidaho.edu/~rwells/techdocs/The Idea of Public Education/Volume 1 Education and Society/](http://www.mrc.uidaho.edu/~rwells/techdocs/The%20Idea%20of%20Public%20Education%20Volume%201%20Education%20and%20Society/)

*The Idea of the Social Contract*, 2012, R.B. Wells, posted 12/21/2012

[http://www.mrc.uidaho.edu/~rwells/techdocs/The Idea of the Social Contract/](http://www.mrc.uidaho.edu/~rwells/techdocs/The%20Idea%20of%20the%20Social%20Contract/)

*Unabridged Glossary of the Critical Philosophy and Mental Physics*, 2nd Ed. 2012, R.B. Wells (ed.), posted 6/20/2012; last updated 8/28/2012;

[http://www.mrc.uidaho.edu/~rwells/techdocs/Wells Glossary of Critical Philosophy and Mental Physics 2nd Ed.pdf](http://www.mrc.uidaho.edu/~rwells/techdocs/Wells%20Glossary%20of%20Critical%20Philosophy%20and%20Mental%20Physics%202nd%20Ed.pdf)

## **2011**

*Unabridged Glossary of the Critical Philosophy and Mental Physics*, 2011, R.B. Wells (ed.), posted 6/17/2011; last updated 8/24/2011;

[http://www.mrc.uidaho.edu/~rwells/techdocs/Wells Glossary of the Critical Philosophy and Mental Physics.pdf](http://www.mrc.uidaho.edu/~rwells/techdocs/Wells%20Glossary%20of%20Critical%20Philosophy%20and%20Mental%20Physics.pdf)

*Leadership*, 2010, Richard B. Wells; posted 5/4/2011; last updated 5/4/2011;

<http://www.mrc.uidaho.edu/~rwells/techdocs/Leadership/>

*Introduction to Biological Signal Processing and Computational Neuroscience*, 2010, Richard B. Wells; posted 4/15/2010; last updated 4/18/2011

[http://www.mrc.uidaho.edu/~rwwells/techdocs/Biological Signal Processing/](http://www.mrc.uidaho.edu/~rwwells/techdocs/Biological%20Signal%20Processing/)

## 2010

*The Idea of the American Republic*, 2010, Richard B. Wells; posted 6/4/2010; last updated 6/4/2010

[http://www.mrc.uidaho.edu/~rwwells/techdocs/The Idea of the American Republic – A Political Science Essay/](http://www.mrc.uidaho.edu/~rwwells/techdocs/The%20Idea%20of%20the%20American%20Republic%20-%20A%20Political%20Science%20Essay/)

## 2009

*The Principles of Mental Physics*, 2009, Richard B. Wells; posted 9/30/2009; last updated 10/12/2011

[http://www.mrc.uidaho.edu/~rwwells/techdocs/Mental Physics/Principles of Mental Physics/Chapters/](http://www.mrc.uidaho.edu/~rwwells/techdocs/Mental%20Physics/Principles%20of%20Mental%20Physics/Chapters/)

## 2007

*The Critical Philosophy and the Phenomenon of Mind*, 2006, Richard B. Wells; posted 6/6/2006; last updated 7/17/2007

[http://www.mrc.uidaho.edu/~rwwells/Critical Philosophy and Mind/](http://www.mrc.uidaho.edu/~rwwells/Critical%20Philosophy%20and%20Mind/)

## On-Line Technical Papers and Documents by date of last update

### 2017

"On the Dark Age Ancestry of the Wells Family, Richard B. Wells, Mar. 2017, posted 3/7/2017

<http://www.mrc.uidaho.edu/mrc/people/rwwells/techdocs/Dark%20Age%20Ancestry%20of%20Wells.pdf>

### 2016

"The Consent of the Governed," Richard B. Wells, Dec., 2016, posted 12/12/2016

<http://www.mrc.uidaho.edu/~rwwells/techdocs/The%20Consent%20of%20the%20Governed.pdf>

"Why People Think," Richard B. Wells, 2016, posted 11/14/2016

<http://www.mrc.uidaho.edu/~rwwells/techdocs/Why%20People%20Think.pdf>

"The Challenge of Mini-Community," Richard B. Wells, 2014, posted 11/8/2016

<http://www.mrc.uidaho.edu/~rwwells/techdocs/The%20Challenge%20of%20Mini-Community.pdf>

"Heterarchical Organization and Management," Richard B. Wells, 2015, posted 11/30/2016

<http://www.mrc.uidaho.edu/~rwwells/techdocs/Heterarchical%20Organization%20and%20Management.pdf>

### 2013

"Critical review of the Dewey-Bode applied philosophy of education, part IV: The Personal Dimension of the Learner," Richard B. Wells, September 25, 2013, posted 9/25/2013

<http://www.mrc.uidaho.edu/~rwwells/techdocs/Critical%20Review%20of%20the%20Dewey-Bode%20Applied%20Philosophy%20of%20Education/Critical%20Review%20Part%20IV%20The%20Personal%20Dimension%20of%20the%20Learner.pdf>

"Critical review of the Dewey-Bode applied philosophy of education, part III: Tangible and Persuasion Socialization," Richard B. Wells, September 16, 2013, posted 9/16/2013

<http://www.mrc.uidaho.edu/~rwwells/techdocs/Critical%20Review%20of%20the%20Dewey-Bode%20Applied%20Philosophy%20of%20Education/Critical%20Review%20Part%20III%20Tangible%20and%20Persuasion%20Socialization.pdf>

"Critical review of the Dewey-Bode applied philosophy of education, part II: Corporal & Intellect Socialization," Richard B. Wells, August 31, 2013, posted 9/3/2013

<http://www.mrc.uidaho.edu/~rwwells/techdocs/Critical%20Review%20of%20the%20Dewey-Bode%20Applied%20Philosophy%20of%20Education/Critical%20Review%20Part%20II%20Corporal%20and%20Intellect%20Socialization.pdf>

“Critical review of the Dewey-Bode applied philosophy of education, part I: Schooling and Society,” Richard B. Wells, August 1, 2013, posted 8/2/2013

<http://www.mrc.uidaho.edu/~rwwells/techdocs/Critical%20Review%20of%20the%20Dewey-Bode%20Applied%20Philosophy%20of%20Education/Critical%20Review%20Part%20I%20Schooling%20and%20Society.pdf>

## 2012

"On the synthesis of disjunctive inferences of Reason in transcendental Logic," Richard B. Wells, May 15, 2012; posted 5/15/2012; last updated 5/15/2012

<http://www.mrc.uidaho.edu/~rwwells/techdocs/On the Synthesis of Disjunctive Inferences of Reason.pdf>

"The role of Standpoints in applied metaphysics," Richard B. Wells, May 5, 2012; posted 5/7/2012; last updated 5/7/2012

<http://www.mrc.uidaho.edu/~rwwells/techdocs/The Role of Standpoints in Applied Metaphysics.pdf>

## 2011

"A lumped element modeling schema for metabotropic signaling in neurons," Richard B. Wells, Oct. 12, 2011; posted 10/12/2011; last updated 10/12/2011

<http://www.mrc.uidaho.edu/~rwwells/techdocs/Linvill paper manuscript.pdf>

"*Comparison* in apprehensive imagination," Richard B. Wells, July 19, 2011; posted 7/22/2011; last updated 7/22/2011

<http://www.mrc.uidaho.edu/~rwwells/techdocs/Comparison in apprehensive imagination.pdf>

"Preliminary discussion of the Martian 2 Program," Richard B. Wells, July 5, 2011; posted 7/5/2011; last updated 7/5/2011;

<http://www.mrc.uidaho.edu/~rwwells/techdocs/Preliminary Discussion of the Martian 2 Program.pdf>

"On critical representation in brain theory, Part II: General schema of knowledge representation," Richard B. Wells, May 25, 2011; posted 6/30/2011; last updated 6/30/2011;

<http://www.mrc.uidaho.edu/~rwwells/techdocs/On Critical Representation in Brain Theory Part II.pdf>

"The applied metaphysic of the somatic code," Richard B. Wells, June 16, 2011; posted 6/17/2011; last updated 6/17/2011;

<http://www.mrc.uidaho.edu/~rwwells/techdocs/Applied Metaphysic of the Somatic Code.pdf>

"On critical representation in brain theory, Part I: Critique," Richard B. Wells, May 25, 2011; posted 6/17/2011; last updated 6/17/2011;

<http://www.mrc.uidaho.edu/~rwwells/techdocs/On Critical Representation in Brain Theory Part I.pdf>

"Weaver's model of communication and its implications," Richard B. Wells, June 2, 2011; posted 6/2/2011; last updated 6/2/2011

<http://www.mrc.uidaho.edu/~rwwells/techdocs/Weavers Model of Communication and Its Implications.pdf>

"On the derivation of an applied metaphysic," Richard B. Wells, May 20, 2011; posted 5/22/2011; last updated 5/22/2011

<http://www.mrc.uidaho.edu/~rwwells/techdocs/On the Derivation of an Applied Metaphysic.pdf>

"On Critical doctrine of method in brain-theory," Richard B. Wells, March 31, 2011; posted 5/22/2011; last updated 5/22/2011

<http://www.mrc.uidaho.edu/~rwwells/techdocs/On Doctrine%20of%20Method.pdf>

"On the synthesis of polysyllogisms in Critical Logic," Richard B. Wells, April 21, 2011; posted 4/24/2011; last updated 4/24/2011

<http://www.mrc.uidaho.edu/~rwwells/techdocs/On%20the%20Synthesis%20of%20Polysyllogisms%20in%20Critical%20Logic.pdf>

## **2009**

"The potentially useful effects of contrast enhancement for ART resonators," Quinn MacPherson, June 16, 2008; posted 10/30/2009; last updated 10/30/2009

<http://www.mrc.uidaho.edu/~rwwells/techdocs/Useful%20Effects%20of%20contrast%20enhancement.pdf>

"Signaling and propagation modes in highpass and bandpass neural network columns constructed from Eckhorn neurons," Richard B. Wells, Tianlai Lu and Tim Montoya, Jan. 8, 2006; posted 10/15/2009; last updated 10/15/2009

<http://www.mrc.uidaho.edu/~rwwells/techdocs/Signal%20Propagation%20in%20Highpass%20and%20Bandpass%20Neural%20Network%20Columns%20Constructed%20From%20Eckhorn%20Neurons.pdf>

"The Martian program 2009: Theory of the stage I infant model," Richard B. Wells and Quinn MacPherson, April 20, 2009; posted 6/9/2009; last updated 6/9/2009

<http://www.mrc.uidaho.edu/~rwwells/techdocs/Martian%20Program%202009%20rev%201.pdf>

## **2007**

"The sensorimotor system of a Martian," Richard B. Wells, May 20, 2007; posted 5/21/2007; last updated 5/21/2007

<http://www.mrc.uidaho.edu/~rwwells/techdocs/The%20Sensorimotor%20System%20of%20a%20Martian.pdf>

"Affective control of learning processes in network system architectures: A research project," Richard B. Wells, May 15, 2007; posted 5/17/2007; last updated 5/17/2007

<http://www.mrc.uidaho.edu/~rwwells/techdocs/Affective%20Control%20of%20Learning%20Processes.pdf>

"Meanings based networks: A new learning paradigm for ART network systems models," Richard B. Wells, May 12, 2007; posted 5/14/2007; last updated 5/14/2007

<http://www.mrc.uidaho.edu/~rwwells/techdocs/Meanings%20Networks.pdf>

## **2006**

"Investigation of physiological mechanisms for linking field synapses," Richard B. Wells, Nick Garrett and Tom Richner, August 1, 2006; posted 10/13/2006; last updated 10/13/2006

<http://www.mrc.uidaho.edu/~rwwells/techdocs/Investigation%20of%20Physiological%20Mechanisms%20for%20Linking%20Field%20Synapses.pdf>

## **2005**

"Spatio-temporal binding and dynamic cortical organization: Research issues," Richard B. Wells, March 30, 2005; posted 4/13/2005; last updated 4/13/2005

<http://www.mrc.uidaho.edu/~rwwells/techdocs/Functional%20Column%20Research%20Issues.pdf>

"Cortical neurons and circuits: A tutorial introduction," Richard B. Wells, April 11, 2005; posted 4/11/2005; last updated 4/11/2005

<http://www.mrc.uidaho.edu/~rwwells/techdocs/Cortical%20Neurons%20and%20Circuits.pdf>

## **2004**

"The initiative for dynamic link neurocomputing," Richard B. Wells, February 24, 2004; posted 2/24/2004; last updated 2/24/2004

<http://www.mrc.uidaho.edu/~rwwells/techdocs/Initiative%20for%20Dynamic%20Link%20Neurocomputing.pdf>

## **2003**

- "Kinetics and muscle modeling of a single degree of freedom joint, Part I: Mechanics," Richard B. Wells, July 28, 2003; posted 7/28/2003; last updated 12/30/2003  
<http://www.mrc.uidaho.edu/~rwwells/techdocs/Kinetics%20and%20Muscle%20Modeling%20of%20a%20Single%20Degree%20of%20Freedom%20Joint.pdf>
- "Graph-theoretic structure identification in dynamic link architectures," Richard B. Wells, November 24, 2003; posted 12/22/2003; last updated 12/22/2003  
<http://www.mrc.uidaho.edu/~rwwells/techdocs/Graph-Theoretic%20Structure%20Identification%20in%20Dynamic%20Link%20Architectures.pdf>
- "Preliminary discussion of the design of a large-scale general-purpose neurocomputer," Richard B. Wells, November 14, 2003; posted 11/14/2003; last updated 11/14/2003  
<http://www.mrc.uidaho.edu/~rwwells/techdocs/Preliminary%20Discussion%20of%20the%20Design%20of%20a%20GP%20Neurocomputer.pdf>
- "The integrate-and-fire neuron model as a sensory neuron model," Richard B. Wells, August 20, 2003; posted 8/20/2003; last updated 8/20/2003  
<http://www.mrc.uidaho.edu/~rwwells/techdocs/Integrate%20and%20Fire%20Neuron.pdf>
- "Kinetics and muscle modeling of a single degree of freedom joint, Part II: Spindles and sensory neurons," Richard B. Wells, August 13, 2003; posted 8/15/2003; last updated 8/15/2003  
<http://www.mrc.uidaho.edu/~rwwells/techdocs/Kinetics%20and%20Muscle%20Modeling%20of%20a%20Single%20Degree%20of%20Freedom%20Joint%20II.pdf>
- "Spinal sensorimotor system, Part IV: The PPSL network," Richard B. Wells, July 7, 2003; posted 7/5/2003; last updated 7/5/2003  
<http://www.mrc.uidaho.edu/~rwwells/techdocs/Spinal%20Sensorimotor%20System%20Part%20IV.pdf>
- "Spinal sensorimotor system, Part III: The motoneuron layer," Richard B. Wells, June 27, 2003; posted 6/27/2003; last updated 6/27/2003  
<http://www.mrc.uidaho.edu/~rwwells/techdocs/Spinal%20Sensorimotor%20Systems%20Part%20III.pdf>
- "Spinal sensorimotor system, Part II: Motoneurons and motoneuron pathways," Richard B. Wells, June 17, 2003; posted 6/18/2003; last updated 6/18/2003  
<http://www.mrc.uidaho.edu/~rwwells/techdocs/Spinal%20Sensorimotor%20System%20Part%20II.pdf>
- "Spinal sensorimotor system, Part I: Overview," Richard B. Wells, June 9, 2003; posted 6/9/2003; last updated 6/9/2003  
<http://www.mrc.uidaho.edu/~rwwells/techdocs/Spinal%20Sensorimotor%20System%20I.pdf>
- "Muscles," Richard B. Wells, May 27, 2003; posted 5/28/2003; last updated 5/28/2003  
<http://www.mrc.uidaho.edu/~rwwells/techdocs/Muscles.pdf>
- "Synaptic weight modulation and adaptation, Part II: Postsynaptic mechanisms," Richard B. Wells, May 21, 2003; posted 5/21/2003; last updated 5/21/2003  
<http://www.mrc.uidaho.edu/~rwwells/techdocs/Synaptic%20Weight%20Modulation%20II.pdf>
- "Synaptic weight modulation and adaptation, Part I: Introduction and presynaptic mechanisms," Richard B. Wells, May 15, 2003; posted 5/16/2003; last updated 5/16/2003  
<http://www.mrc.uidaho.edu/~rwwells/techdocs/Synaptic%20Weight%20Modulation%20and%20Adaptation%20I.pdf>
- "Dendritic computation in multi-compartment neurons," Richard B. Wells, May 12, 2003; posted 5/12/2003; last updated 5/12/2003  
<http://www.mrc.uidaho.edu/~rwwells/techdocs/Dendritic%20Computation%20in.pdf>