

READINGS for PANGARO SESSIONS	Final	CUSO SEMINAR—NOVEMBER 2014
CYBERNETICS	CONVERSATION	DESIGN
Pask, An Approach to Cybernetics, Preface and Chapter 1, The Background of Cybernetics http://pangaro.com/pask/pask%20approach%20to%20cybernetics.pdf	Dubberly & Pangaro, What is conversation? How do we design for effective conversation?, Interactions Magazine, publication of the ACM, July/August 2009. http://www.dubberly.com/articles/what-is-conversation.html	Dubberly and Pangaro, Cybernetics and Service-Craft: Language for Behavior-Focused Design, 2008. http://www.dubberly.com/articles/cybernetics-and-service-craft.html
Ashby, An Introduction to Cybernetics, Chapter 1: What is New, Chapman and Hall, 1957. http://pespmc1.vub.ac.be/books/introcyb.pdf	Pangaro, Cybernetics and Conversation, or, Conversation Theory in Two Pages, from <i>Communication and Anti-communication</i>, Frank Galuszka (Ed.), American Society for Cybernetics, May 1996. http://www.pangaro.com/published/cyb-and-con.html	Dubberly and Pangaro, Introduction to Cybernetics and the Design of Systems, Collected Models, January 2010 http://pangaro.com/CUSO2014/Cybernetics_Book_of_Models-v4.6b-complete.pdf
Pangaro, Cybernetics—A Definition, <i>Macmillan Encyclopedia of Computers</i> (1991). http://pangaro.com/definition-cybernetics.html	Pangaro, The Architecture of Conversation Theory. http://www.pangaro.com/CT/	Pangaro, Designing for Conversation http://pangaro.com/presents/pangaro-IDEO-conversation-2009v3noex.pdf
Dubberly, Models of Models, in Interactions Magazine, May 2009, Volume 16, issue 3. http://www.dubberly.com/articles/models-of-models.html	Pangaro, Modeling Engagement: Designing conversations and managing complexity http://pangaro.com/portfolio/Paul_Pangaro_Portfolio/PangaroPortfolio-Projects/Pangaro-Ogilvy-Client-Engagement-2007.pdf	Dubberly, Systems Literacy Manifesto http://presentations.dubberly.com/system_literacy.pdf
Dubberly, Haque & Pangaro, What is Interaction? Are There Different Types?, Interactions Magazine, publication of the ACM, Volume XVI.1, January/February 2009 . http://www.dubberly.com/articles/what-is-interaction.html	Dubberly, Esmonde, Geoghegan, Pangaro, Notes on the Role of Leadership and Language in Regenerating Organizations http://pangaro.com/leadership-language-regenerating-organizations.html	Rittel and Webber, Dilemmas in a General Theory of Planning http://www.uctc.net/mwebber/Rittel+Webber+Dilemmas+General_Theory_of_Planning.pdf
Pangaro, Introduction to Requisite Variety in Mechanical, Biological, and Social Systems http://pangaro.com/CUSO2014/Introduction_to_Requisite_Variety-Pangaro.pdf	Pask, Conversation & Support http://pangaro.com/pask/pask%20conversation%20and%20support%201987.pdf	Maturana, Humberto, Metadesign http://www.inteco.cl/articulos/006/texto_ing.htm
Glanville, Second Order Cybernetics (links in pdf do not work) http://pangaro.com/glanville/Glanville-SECOND_ORDER_CYBERNETICS.pdf		Glanville, Keeping Faith with the Design in Design Research http://nelly.dmu.ac.uk/4dd/drs9.html
von Foerster, Disorder/Order, Discovery or Invention, in <i>Disorder and Order</i>, Proceedings of the Stanford International Symposium, Paisley Livingston (Ed.), 1981. Chapter in http://pangaro.com/Heinz-von-Foerster/Heinz_Von_Foerster-Understanding_Understanding.pdf		
von Foerster, Ethics and second-order cybernetics http://web.stanford.edu/group/SHR/4-2/text/foerster.html		

READINGS for PANGARO SESSIONS	Final	CUSO SEMINAR—NOVEMBER 2014
SUPPORTING MATERIALS		
CYBERNETICS	CONVERSATION	DESIGN
Ashby, An Introduction to Cybernetics, Chapter 11: Requisite Variety, Chapman and Hall, 1957. http://pespmc1.vub.ac.be/books/introcyb.pdf	Pask, Artificial Intelligence—a Preface and a Theory, introduction to chapter on machine intelligence in Soft Architecture Machines, Negroponte (ed.), MIT Press, 1976 http://pangaro.com/pask/pask%20aspects%20of%20machine%20intelligence.pdf	Dubberly, Felde & Pangaro, A Model of Innovation & Concept Map http://www.dubberly.com/concept-maps/innovation.html
McCulloch, Warren S., Recollections on the many sources of Cybernetics, from American Society for Cybernetics Forum, Volume VI, Number 2, Summer 1974. http://cyberneticians.com/mcculloch-recollections.pdf	For conversation theory, see also http://pangaro.com/pask-pdfs.html	Dubberly, Maupin, Pangaro, Bio-cost: An Economics of Human Behavior http://www.dubberly.com/articles/bio-cost.html
von Glaserfeld, An Exposition of Constructivism: Why Some Like it Radical http://www.oikos.org/constructivism.htm	Pask, The Architecture Relevance of Cybernetics http://workgroups.clemson.edu/AAH0503_ANIMATED_ARCH/879Readings/GordonPask_Architectural%20Relevance%20of%20Cybernetics.pdf	Rith & Dubberly, Why Horst W.J. Rittel Matters http://www.dubberly.com/wp-content/uploads/2008/06/ddo_article_rittel.pdf
Pangaro, The Past-Future of Cybernetics: Conversations, Von Foerster, and the BCL, in Müller and Müller, (ed.) An Unfinished Revolution? 2007 http://pangaro.com/Past-Future-of-Cybernetics-von-Foerster-BCL.pdf	Haque, The Architectural Relevance of Gordon Pask http://www.haque.co.uk/papers/architectural_relevance_of_gordon_pask.pdf	
in press: Pickering, THE NEXT MACY CONFERENCE: A NEW SYNTHESIS, keynote, IEEE conference, 'Norbert Wiener in the 21st century,' Boston, MA, 24-26 June 2014		