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Five Fresh Perspectives
on Applying LPAA
Principles to Treatment
for Neurogenic
Communication Disorders

Guest Editor: Audrey Holland, PhD, CCC-SLP, BC-ANCDS



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The Role of the Environment: Supporting language, communication and participation

Thomas Sather, PhD, CCC-SLP

Moderated by: Amy Hansen, MA, CCC-SLP, Managing Editor, SpeechPathology.com



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### The Role of the Environment: Supporting language, communication, and participation

Tom Sather, PhD/CCC-SLP University of Wisconsin – Eau Claire Mayo Clinic Health System – Eau Claire

continued

### Learner Outcomes

After this course, participants will be able to:

- Identify at least five components of the environment as addressed by the World Health Organization's International Classification of Functioning, Disability and Health (WHO-ICF).
- Identify at least three barriers and three facilitators to a participation-rich environment among individuals with aphasia.
- Identify at least three concrete strategies for aphasia rehabilitation that enhance the environment in order to support communication and participation among individuals with aphasia.





### Disclosures

Financial: I received a paid honorarium by SpeechPathology.com for this presentation

Nonfinancial: I serve on the following boards:

- Wisconsin Hearing and Speech Board
- Aphasia Access
- Chippewa Valley Aphasia Group
- Chippewa Valley Aphasia Camp.

Content Disclosure: This learning event does not focus exclusively on any specific product or service.





# Life Participation Approach to Aphasia: A Statement of Values for the Future

Roberta Chapey, Judy Duchan, Roberta Elman, Linda Garcia, Aura Kagan, Jon Lyon (2000). Life Participation Approach to Aphasia: A statement of values for the future. ASHA Leader, 5, 4–6



In R. Chapey, et al. (Ed.), Language intervention strategies in aphasia and related neurogenic communication disorders (5th ed., pp. 279–289). Baltimore: Lippincott Williams & Wilkins.

The explicit goal is enhancement of life participation

Everyone affected by aphasia is entitled to service

Success measures include documented enhancement changes

Both personal and environmental factors are intervention targets

Emphasis on availability of services as needed at all stages of aphasia

## Core Values

of the

LPAA





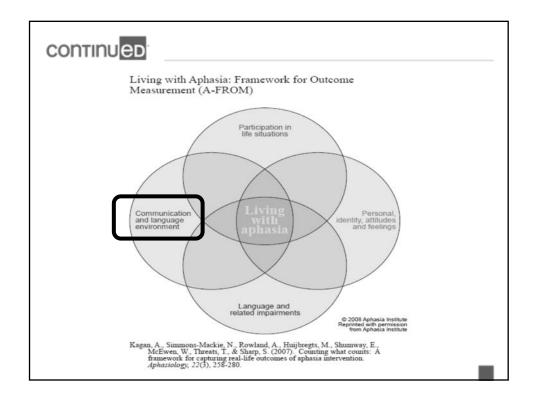
Life participation approach to....early intervention

Life participation approach to....dysarthria

Life participation approach to....apraxia

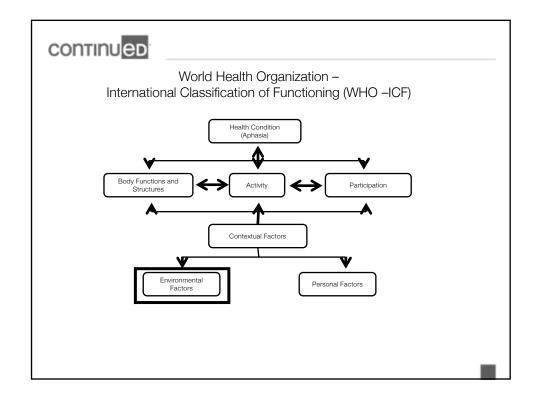
Life participation approach to....







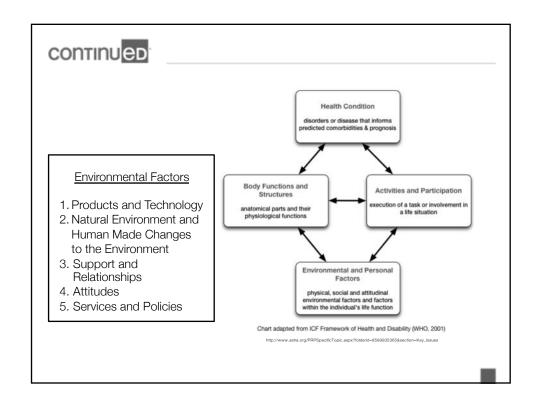


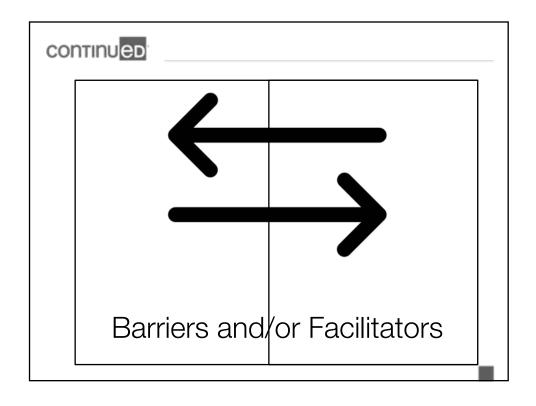


# 5 Components of the Environmental Factors of the WHO-ICF

- 1. Products and Technology
- 2. Natural environment and human-made changes
- 3. Support and Relationships
- 4. Attitudes
- 5. Services, systems and policies











### World Report on Disability

World Health Organization The World Bank

"Disability arises from the interaction of health conditions with contextual factors – environmental and personal factors..."

World Disability Report, 2011, p. 5

https://www.who.int/disabilities/world\_report/2011/report.pdf

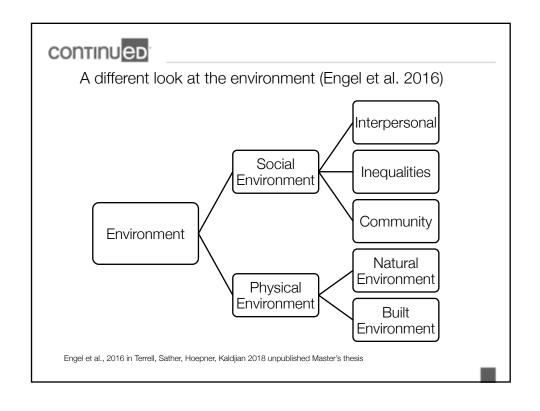
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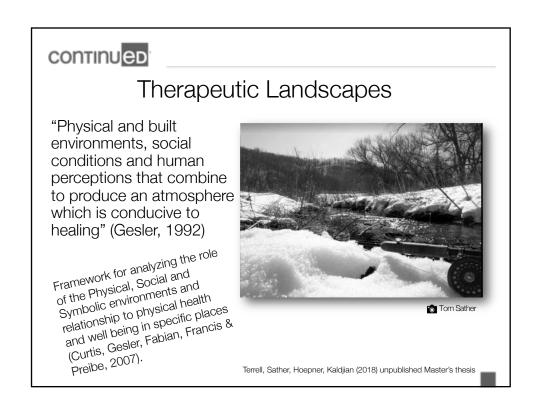
"The political notion that disability is as much the result of environmental barriers as it is of health conditions or impairments must be transformed, first into a research agenda, and then into valid and reliable evidence."

"This evidence can bring genuine social change for persons with disabilities around the world."

WHO, 2001, p. 243 in Threats, 2007, p. 70









Perspectives of the environment...from people with aphasia

continued

# What people with aphasia report about environmental preferences

Dalemans et al. (2010)

- 1. Quiet, familiar place:
  - a. Part of a group
  - b. Motivated to get out of the house
  - c. Express feelings, thoughts, troubles
  - d. Recurring theme of familiarity\*

Social participation through the eyes of people with aphasia Dalemans, deWitte, Wade, and van den Heuvel International Journal of Language and Communication Disorders



# What people with aphasia report about environmental preferences

Howe, Worrall & Hickson (2008)

Interviews regarding environmental factors:

- 1. Awareness of Aphasia
- 2. Opportunities for Participation
- 3. Familiarity
- 4. Availability of Extra Support for Communication
- 5. Communication Complexity
- 6. Message Clarity
- 7. Time Available for Communication

### continued

Howe, Worrall & Hickson (2008)

10 participants with aphasia were observed in multiple environs

Six themes (44 barriers/59 facilitators):

- 1. Referents
- 2. Interaction
- 3. Familiarity
- 4. Communication Complexity
- 5. Time Available for Communication
- Availability of Extra Support for Communication

Blue themes observed across both Interviews AND Observations of individuals with aphasia Howe et al. 2007 and 2008 studies



# What people with aphasia report about environmental preferences

Le Dorze et al. 2014

■ 17 PWA;

Among the environmental factors that were identified as facilitators for participation with people with aphasia included:

- Family/friends that adjusted to the aphasia and/or willing to help
- Opportunities within local aphasia organizations for relationships and participation
- Strangers who took on a positive attitude and tolerance for the presenting aphasia difficulties

continued

# Environmental Assessments

The Role of Assessing the Environment





## The Shirley Ryan Ability Lab Rehabilitation Measures Database

https://www.sralab.org/rehabilitation-measures

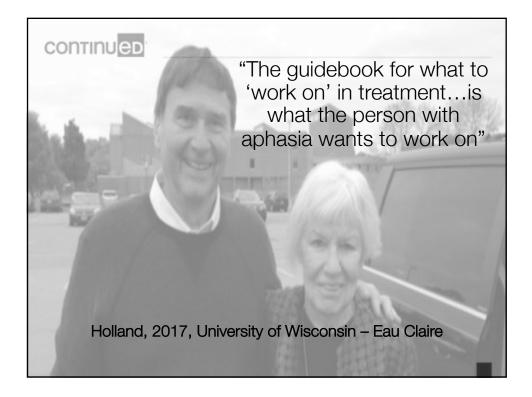
continued

(Potential) Problem in assessment...

The Tool Determines the Problems We Find

(Kagan, AphasiaAccess January 2016)





# Inpatient Functional Communication Interview

(IFCI; O'Halloran, Worrall, Toffolo, Code, & Hickson)

In-depth look at the effectiveness of communication by inpatients in acute/medical contexts – as determined in part by patients' perceptions of importance

IFCI Staff Questionnaire – patients and nurses interviewed (O'Halloran, Coyle, & Lamont, 2016).



# The Assessment for Living with Aphasia Toolkit (ALA) – 2<sup>nd</sup> edition

Available via the Aphasia Institute of Toronto -

#### Per their website:

- Corresponds with WHO-ICF
- Psychometrically sound assessment tool
- Provides quantitative and qualitative results from the perspective of people living with aphasia
- Captures real-life issues for planning and evaluating aphasia treatments and making funding decisions

https://www.aphasia.ca/shop/assessment-for-living-with-aphasia-toolkit/

### continued

COMACT and SOCACT (Cruice, 2001; Aujla et al., 2016)

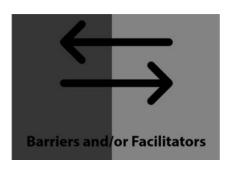
The Communicative Activities Checklist (COMACT) – Activities of reading, writing, communicating in various contexts (jokes, formal groups, etc.) rated in frequency of occurrence of activity

The Social Activities Checklist (SOCACT) – rating frequency of occurrence of a variety of activities – visiting community places, working on hobbies, playing with kids/grandkids, etc.



Communication Confidence Rating Scale for Aphasia – CCRSA (Babbitt & Cherney, 2010)

Communication Effectiveness Inventory (CEI) (Lomas et al., 1989)



continued

The Activity Card Sort (Baum & Edwards)

89 Photographs
4 categories
Instrumental
Low physical demand
leisure
High physical demand
leisure
Social activities

Sorting task

"Done PTA; Not done PTA"
"Do more of; same; Less of; Given up"





#### The Life Interests and Values Cards

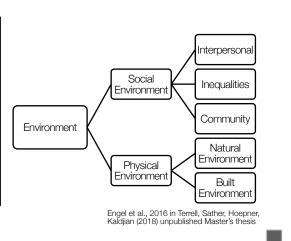
Home and Community Creative and Relaxing Physical Social

Haley, KL, Womack, JL, Helm-Estabrooks, N, Caignon, D, McCulloch, KL, (2010). The Life Interest and Values Cards. Chapel Hill, NC: University of North Carolina Department of Allied Health Sciences.(SLPs, OT and PT)

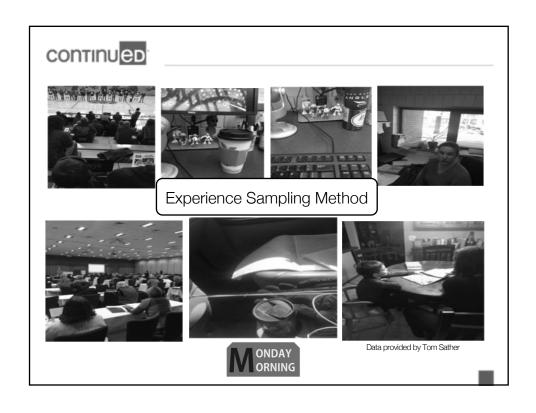
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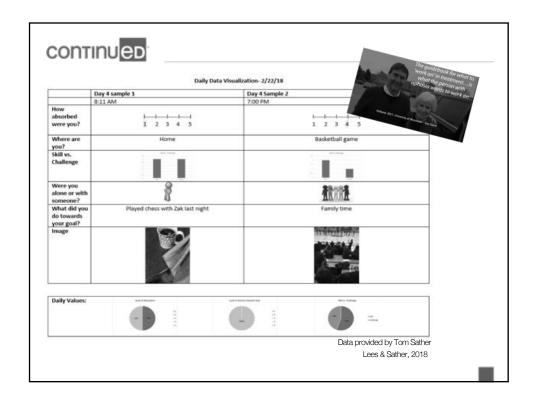
#### **Environmental Factors**

- 1. Products and Technology
- 2. Natural Environment and Human Made Changes to the Environment
- 3. Support and Relationships
- 4. Attitudes
- 5. Services and Policies

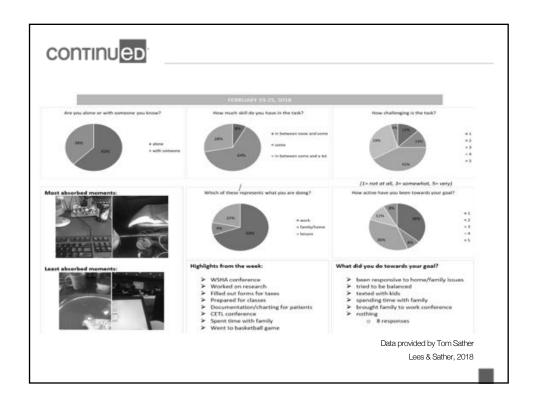


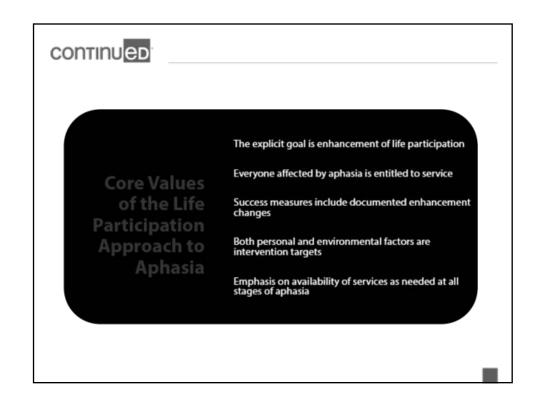




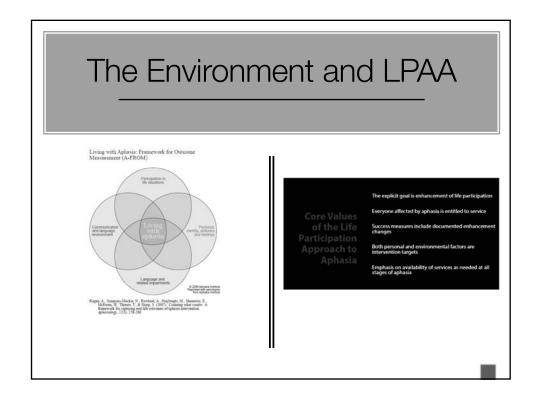










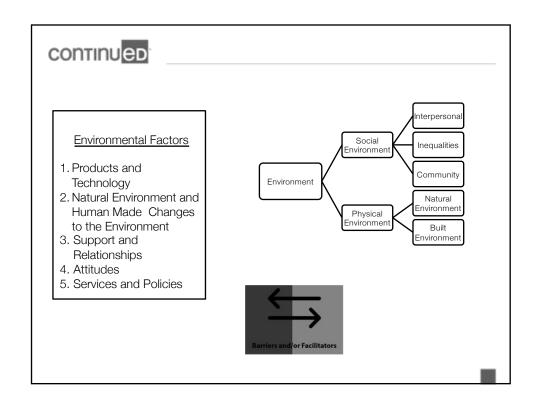


Return to Dalemans et al. (2010)

"In this study it becomes clear that they do not necessarily want to do more, but that they want their interactions to be more satisfying." (p. 545)



Creating and Enhancing Environments
Supporting People with Aphasia



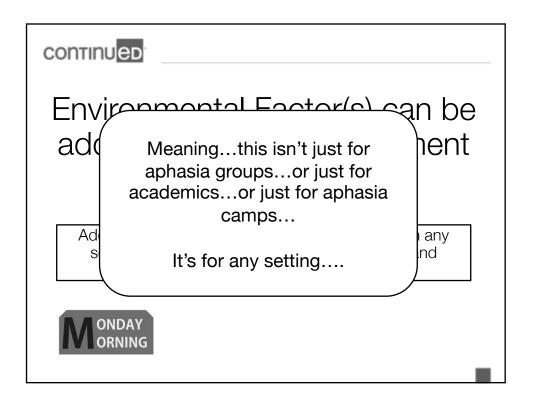




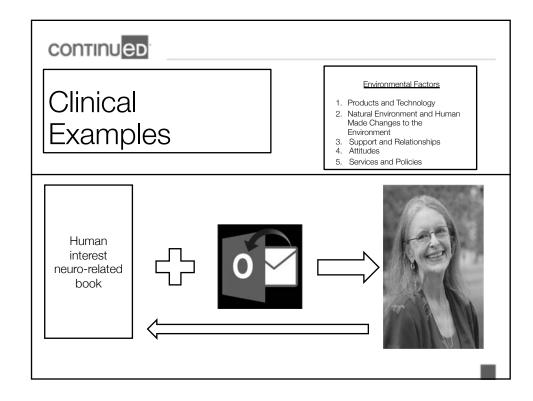
Environmental Factor(s) can be addressed in any environment by any person.

Addressing Environmental Factors can be done in any setting, and can be part of billed assessments and interventions









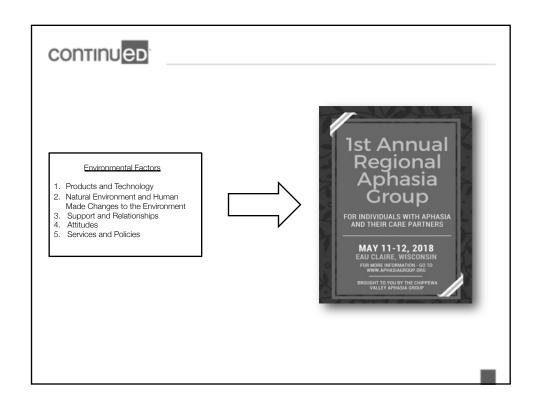
"Three Voices at the Table" The Journal of Humanities in Rehabilitation T. Riske & C. Zorn (2018) https://www.jhrehab.org/2018/11/08/three-voices-at-thetable/

Patient Voice + Care Partner Voice + Clinician/Provider Voice

#### Environmental Factors

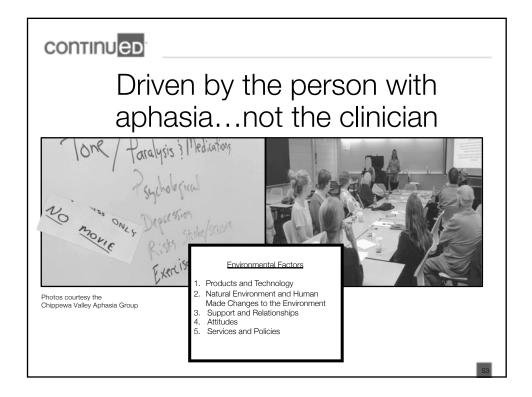
- 1. Products and Technology
- Natural Environment and Human Made Changes to the Environment
- 3. Support and Relationships
- Attitudes Services and Policies











### Training Communication Partners

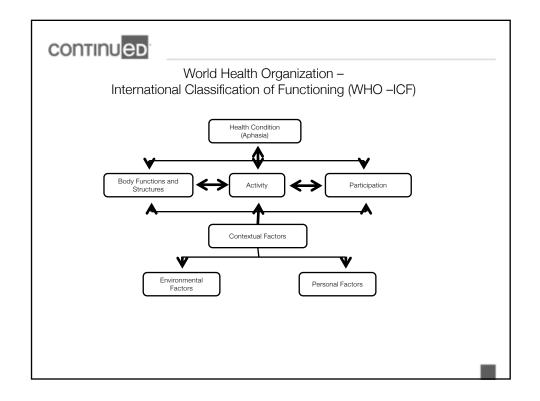
Systematic Review (Simmons-Mackie, Raymer & Cherney, 2016)

Communication partner training can be effective in supporting communication, and should be a part of environmental support

Simmons-Mackie, N., Raymer, A., Cherney, L. (2016). Communication partner training in aphasia: An updated systematic review. Archives of Physical Medicine and Rehabilitation. 97(12), 2202-2221.





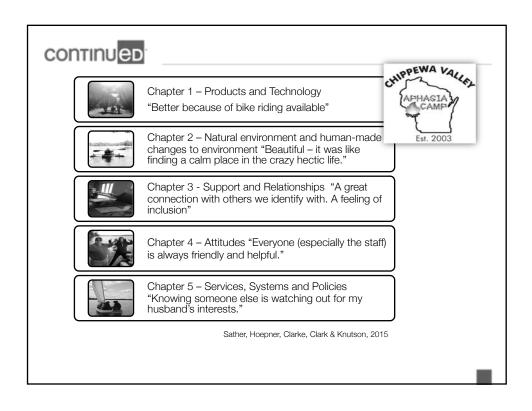


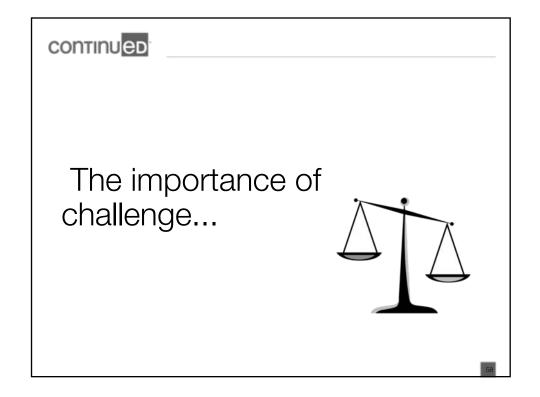


# 5 Components of the Environmental Factors of the WHO-ICF

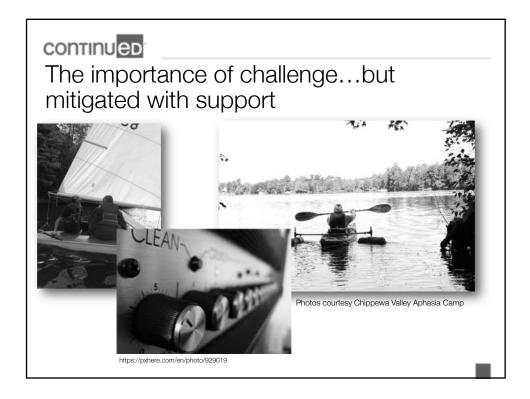
- 1. Products and Technology
- 2. Natural environment and human-made changes
- 3. Support and Relationships
- 4. Attitudes
- 5. Services, systems and policies











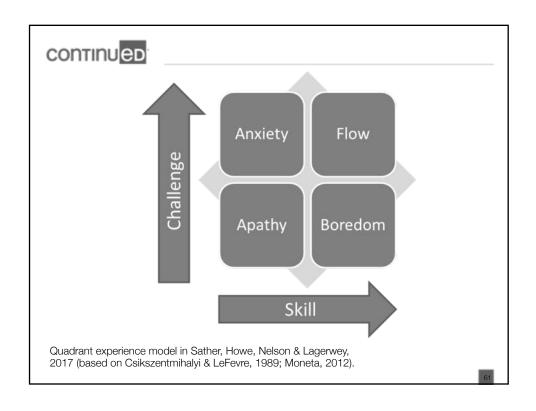


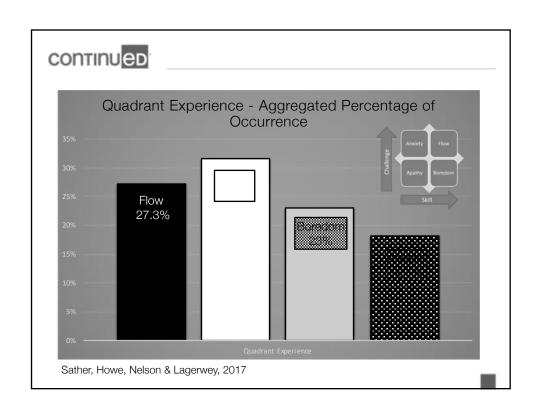
### Mihalyi Csikszentmihalyi

The concept of "flow" – being so absorbed in something you lose track of time, forget what was on your mind, and are feeling a sense of control

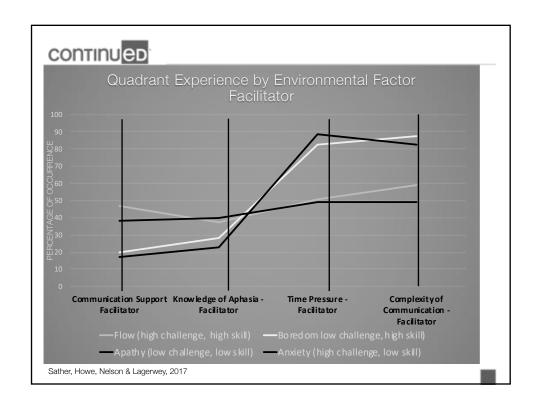
https://commons.wikimedia.org/wiki/File:Mihalv\_Csikszentmihalvi.ipg

















Extraordinary Landscapes –
enduring reputations for
healing, but typically shorter
duration, †difficulty w/ access
(English, Wilson, Keller-(\$\$\$, adistance, etc.)



Ordinary Landscapes – landscapes regularly encountered that promote healing/peace/wellbeing

Importance of social supports and meaningful activities as contributors to building of these landscapes.

### continued

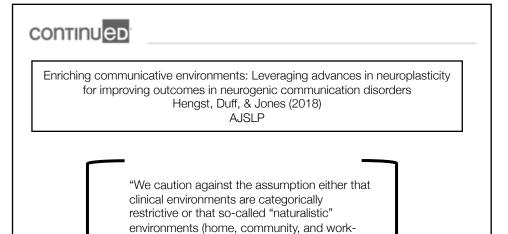


Photos courtesy Chippewa Valley Aphasia Group









place) are by contrast, rich, supportive, and nondirective or egalitarian." (p. 226)

ONDAY ORNING

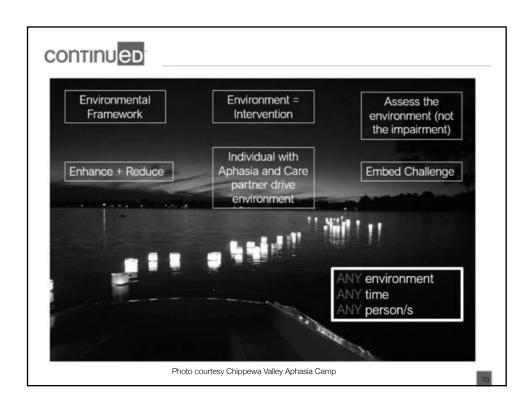
Hengst, Duff, & Jones (2018)

CONTINUED	
Λ fovy toleony	
A few takeaways  Enriching the environment	
	_



# Facilitating environments rich for participation

- 1. Use an environmental framework: WHO-ICF, Engel, others.... This will guide your assessment and intervention
- 2. Approach the environment to enhance facilitators and/or reduce barriers
- Addressing the environment IS assessment/intervention. Make it a part of your intervention, not an adjunct to your intervention.
- 4. The individual with aphasia and care partners drive the environmental assessment and interventions
- 5. To assess the environment ask the individual with aphasia and care partner; Use a structure that addresses the environment (not just impairment-based measures)
- 6. Embed and emphasize the importance of CHALLENGE
- 7. ANY Environment / ANY time / by ANY person/s





continued
Questions and discussion

continued	
Thank you!	
Tom Sather PhD/CCC-SLP  sathertw@uwec.edu  @TomSatherSLP	



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