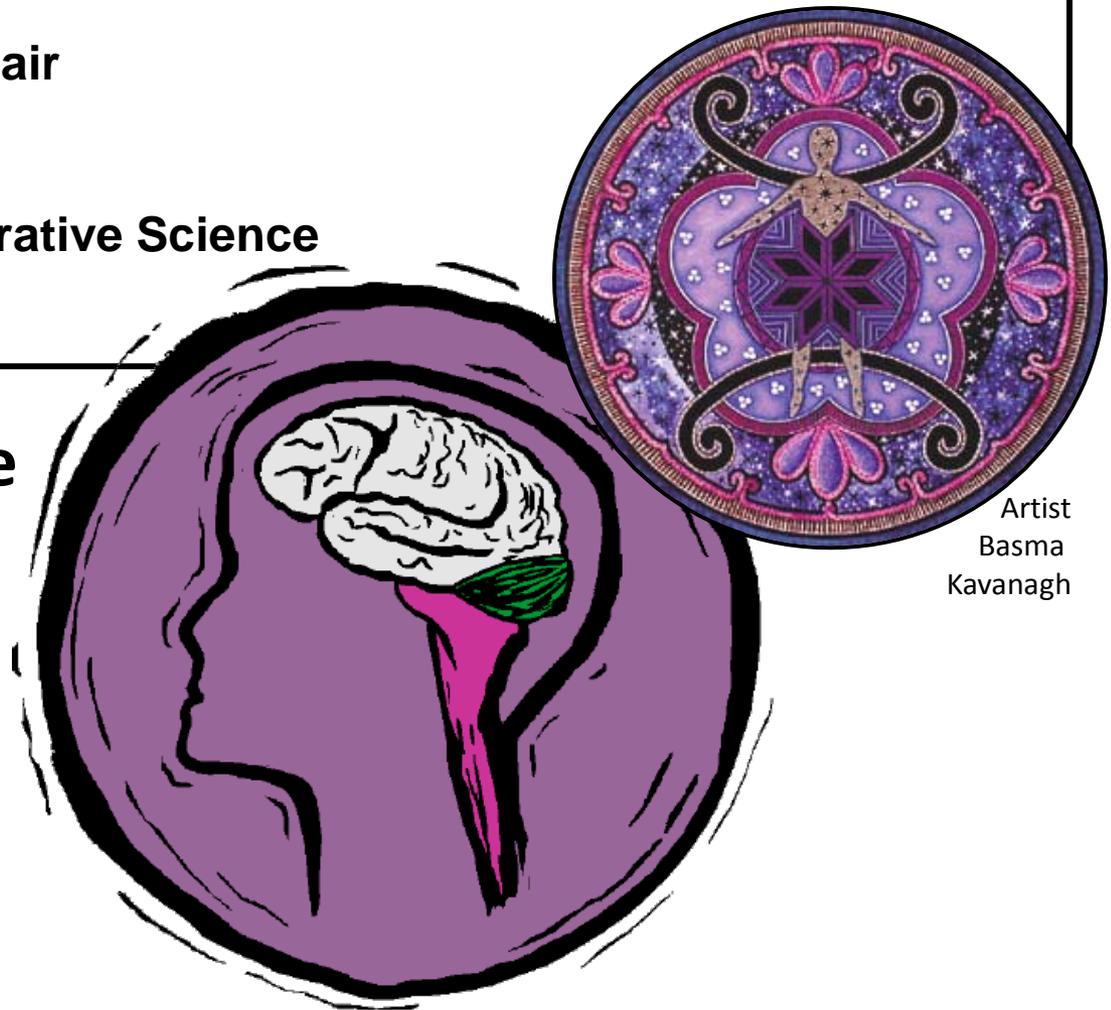


**“Mi’kmaq Youth Mentoring Program” Workshop for Mi’kmaq High School Students. Membertou First Nation, NS, 19 December 2006**

**Cheryl Bartlett, PhD**  
**Tier 1 Canada Research Chair**  
**in Integrative Science**  
**Professor of Biology**  
**Director, Institute for Integrative Science**  
**& Health**

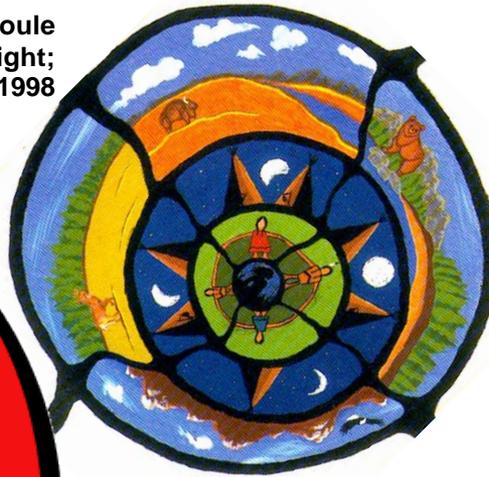
**an Integrative Science  
look at:**

***your brain***  
***on drugs,***  
***your brain in an***  
***ecosystem***



Artist  
Basma  
Kavanagh

Artist : Rod Restoule  
from: Into the Daylight;  
C. Morrisseau, 1998



thinking  
cognitive

physical

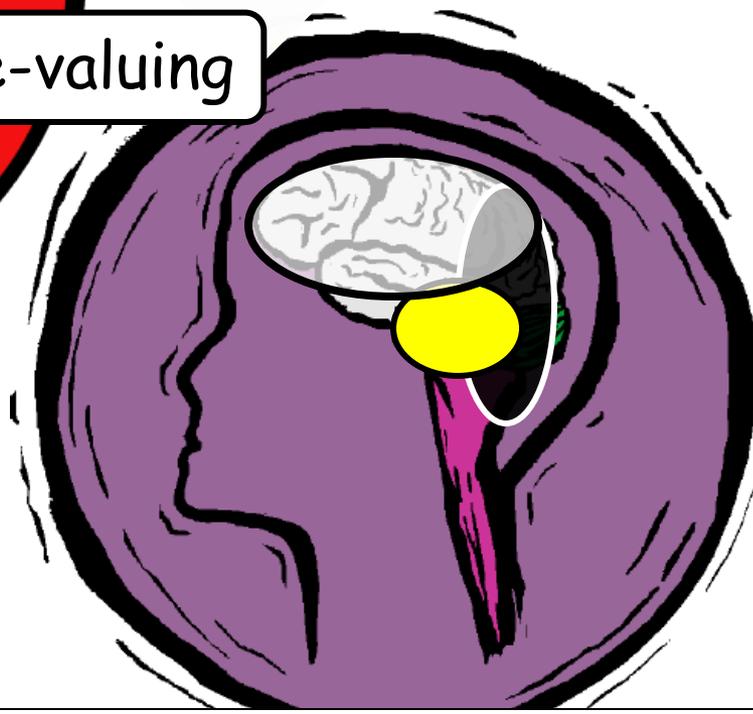
spiritual

doing

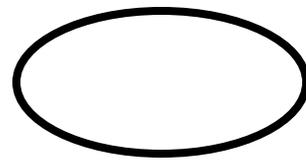
life-valuing

emotional

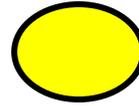
feeling



**Traditional Knowledge & Brain Science: TOGETHER**



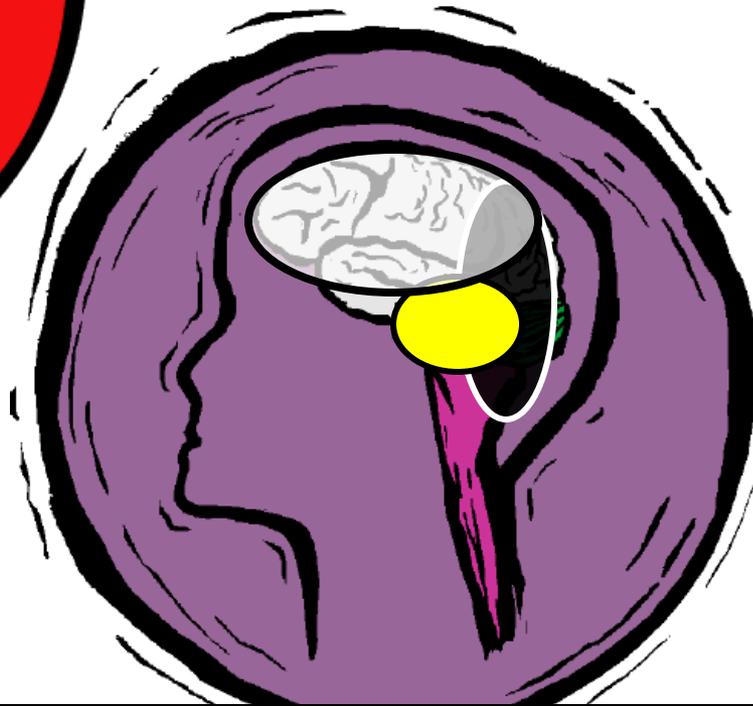
**Neocortex:** thinking consciousness ... e.g. speaking, imagining, learning (*learning brain*)



**Limbic:** emotions and feeling judgment (*leopard brain*)

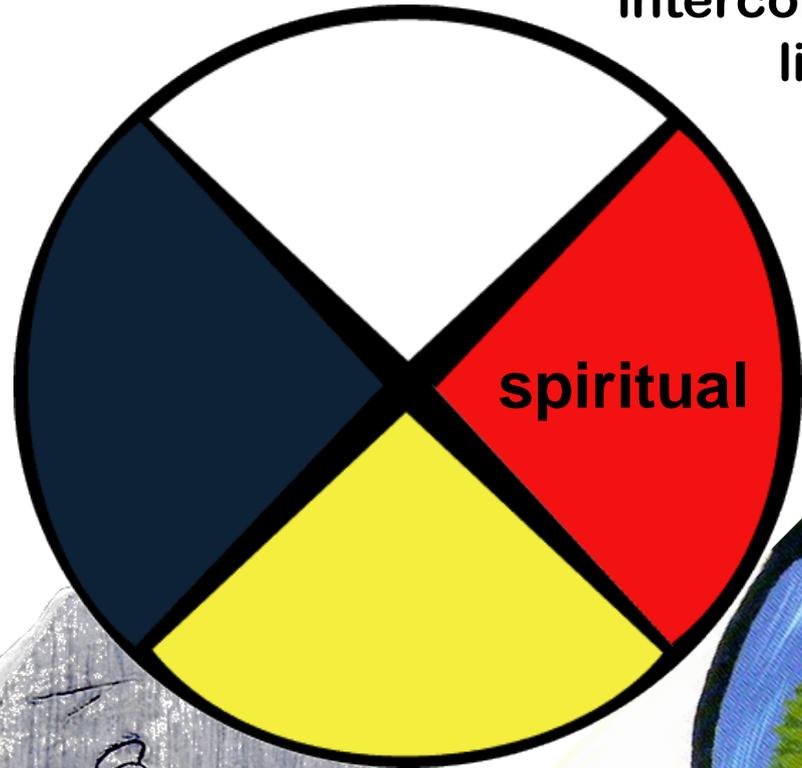


**Brain stem & Cerebellum:** e.g. moving, breathing, heart rate, body temperature (*lizard brain*)



**“Heart-brain”:**  
loving interconnectiveness  
with self and all of Creation

**Traditional Knowledge & Brain Science: TOGETHER**



interconnectiveness

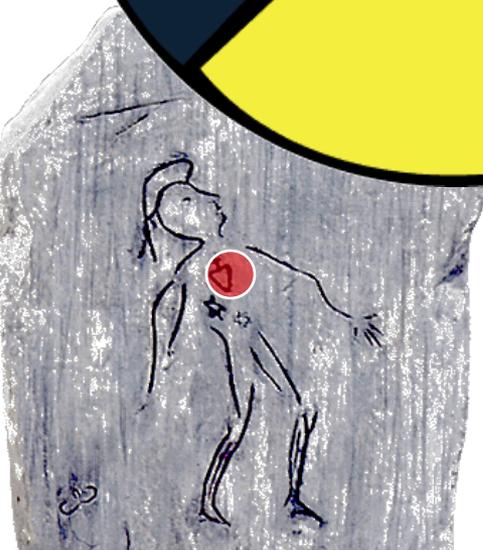
life

water

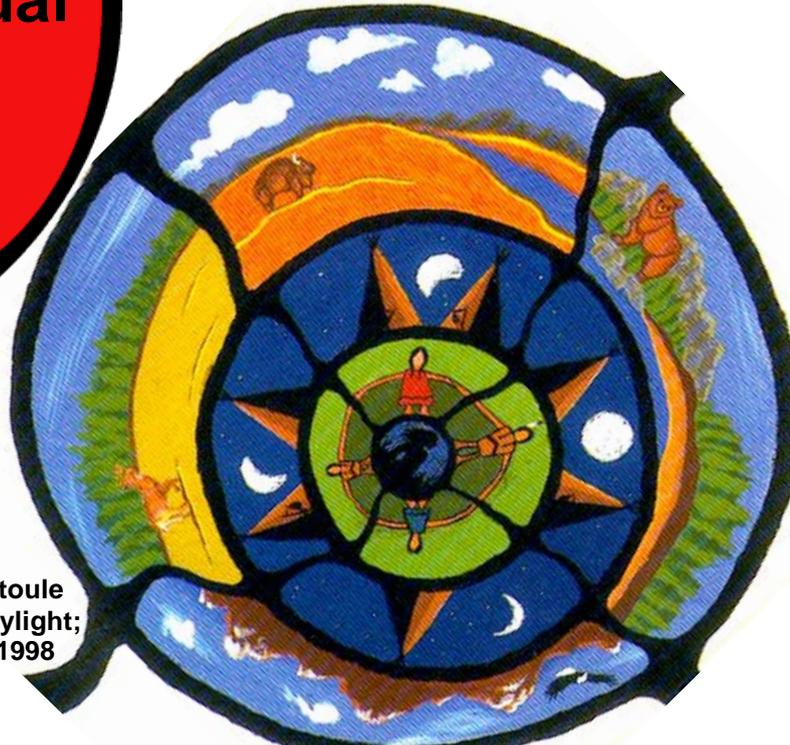
land

air

energy



Artist: Rod Restoule  
from: Into the Daylight;  
C. Morrisseau, 1998



**Traditional Knowledge & Ecosystem Science: TOGETHER**