



2019

A RETROSPECTIVE



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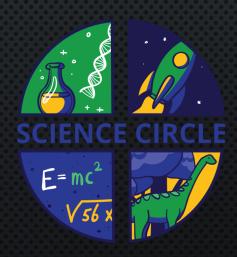
Special thanks to Jes Stannard, Earl Kiech and Matthew Burr for their continuous presence and support with activities.

Hereby we also need to mention Agustin Martin, the producer of our film recordings and Mike Shaw for offering Zoom on a weekly base.

Without the five of you, the continuity and quality could not be guaranteed.



	Alex Hastings	Earl Kiech	Giuseppe Longo	Greg Perrier	Hajime Nishimura	James Woods	Keith Eric Grant
Presentation			2				1
Panel	1						2
Science Fair		Χ		X		X	
Excursion				1	3		
VWBPE							
Concert		3					
Darwin Day							



Activity of SC Professors



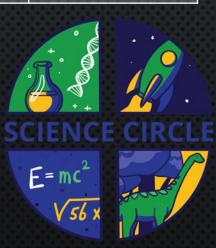
Activity of SC Professors

	Linda Morris Kelley	Lynne Berrett	Marie Vans	Matthew Burr	Mike Shaw	Nikolai Mnev	Phil Youngblood
Presentation	1				2		2
Panel	1			9	3	1	4
Science Fair	Х			X	X		X
Excursion	1	1					
VWBPE				X	Х		X
Concert							
Darwin Day			n.				



	Rob Knop	Robert Brown	Robert Hendrix	Stephen Gasior	Steven Van Hook	William Schmachten berg	William Wall
Presentation	2	2	4	2	2	1	1
Panel	1		1	2			4
Science Fair	Х	X		X	X	X	
Excursion						11	
VWBPE				X			
Concert							
Darwin Day				Х			

Activity of SC Professors





"What is Entropy?"
Rob Knop
"Optics for Photographers"
Robert Lawson Brown
"Ultra Deep Science Drill Ship"
Hajime Nishimura
Panel
Climate Change
Matthew Burr
Keith Eric Grant, Phil Youngblood & William Wall

JANUARY



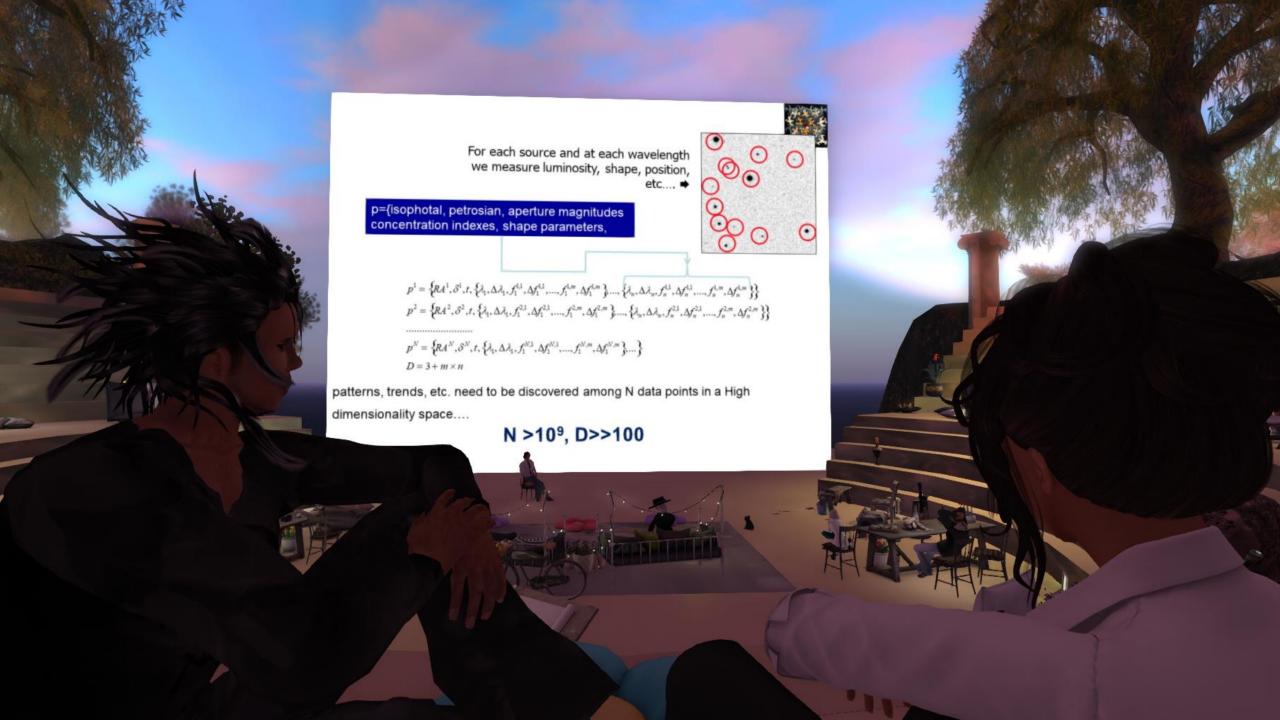
"Alien Exosociology"	Steven Van Hook
"Non-Alcoholic Fatty Liver Disease"	Robert Hendrix
"Darwin day: Heroes of Evolution"	Stephen Gasior
"Pigments, Colors & Dyes, Oh My!"	Mike Shaw
Panel Cyber Security	Matthew Burr Myron Curtis, Phil Youngblood & Sam Galus

FEBRUARY



"Color for Photographers"	Robert Lawson Brown
"Archival & Digital Legacy"	Budd Turner
"Lab Experiments in SL"	Kurt Winkelmann
"Human Papilloma Virus"	Robert Hendrix
Panel Animal Behavior	Matthew Burr Linda Morris Kelley





VWBPE "Innovators in Global Science Education"	Mike Shaw, Phil Youngblood, Stephen Gasior, Rob Knop & Matthew Burr
"Science of Science: Big Data"	Giuseppe Longo
"Top-Ten SC Podcasts"	Steven Van Hook
"Luna: The Earth's Moon"	William Wall
Panel Science Fiction	Matthew Burr Myron Curtis, Robert Hendrix & William Wall

APRIL



"Precambrian-Cambrian boundary Explosion II"	Shuhai Xiao
"First Image of a Supermassive Black Hole"	Rob Knop
"Birthday Concert Jes"	Earl Kiech
Panel "What is the most Significant Unanswered Question in your field?"	Matthew Burr Alex Hastings, Mike Shaw & Stephen Gasior





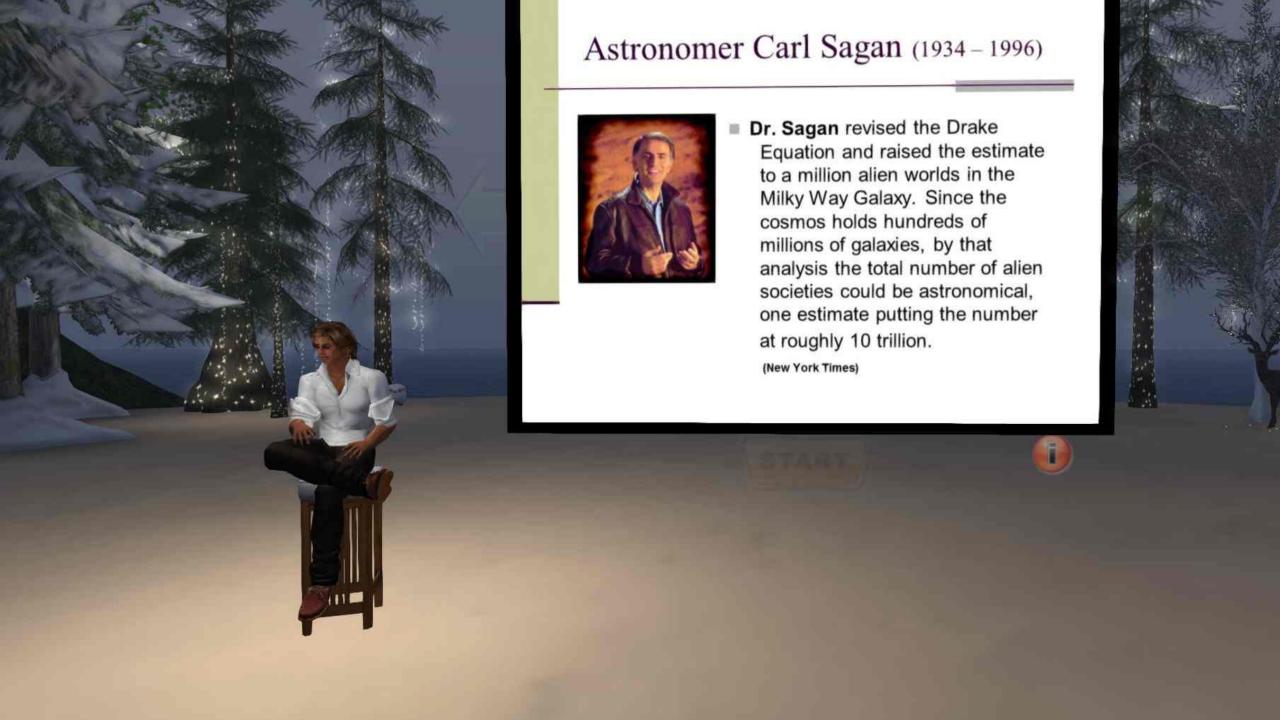
The New Interactive Brain	Lynne Berrett
Mars & Opportunity Rover	Hajime Nishimura
Geology Museum	William Schmachtenberg
Chemistry Lab	Kurt Winkelmann
Coast & Waters of Sub-Arctic	Linda Morris Kelley
Science Fair	Fumon, Phil Youngblood, Stephen Gasior, James Woods, Robert Lawson Brown, Linda Morris Kelley, Steven Van Hook, William Schmachtenberg, Greg Perrier, Deepthinker Oh, Mike Shaw, Rob Knop, Earl Kiech & Matthew Burr

JUNE EXCURSIONS



1 st SC Benefit Concert	Earl Kiech
"Late Ordovician Extinction"	William Schmachtenberg
"Explore Science in Second Life!"	Phil Youngblood
"The Face of Dementia"	Robert Hendrix
Panel Unanswered Questions II	Matthew Burr Nikolai Mnev, Rob Knop & William Wall

SEPTEMBER



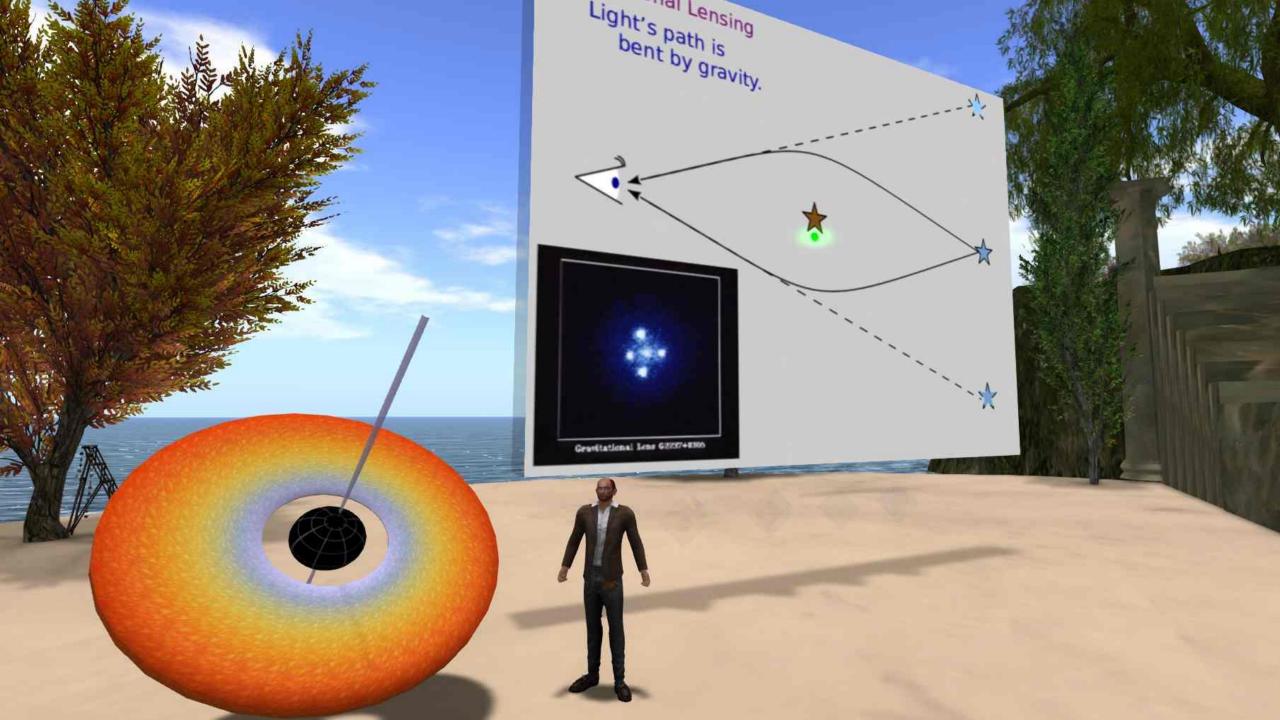
"Our place in the Universe"	Phil Youngblood
"Whales, Dolphins, Porpoises & Us"	Linda Morris Kelley
"Evolutionary Theory before Darwin"	Stephen Gasior
"This isn't Your Grandparents' Climate"	Keith Eric Grant
Panel Science Books for a Popular Audience	Matthew Burr Mike Shaw, Stephen Gasior, Phil Youngblood & Keith Eric Grant

OCTOBER



"History of Antibiotic"	Robert Hendrix
"How Data Science is shaping the Future"	Giuseppe Longo
"Green & Purple: Bioprocesses that use Light"	Mike Shaw
"Movies about Science"	Matthew Burr

NOVEMBER



2 nd SC Benefit Concert	Earl Kiech
Climate Change Portal	Hajime Nishimura
NOVA, Northern Virginia Community College	Greg Perrier
The Charles Dickens Project	Marie Vans
Panel Audience Questions	Matthew Burr William Wall, Mike Shaw & Phil Youngblood

DECEMBER EXCURSIONS



Top 5 Audience between September & December

Audience	Presentation/Panel	Speaker
34	Evolutionary Theory Before Darwin	Stephen Gasior
30	This isn't Your Grandparents' Climate	Keith Eric Grant
28	Panel Science Books for a Popular Audience	Matthew Burr Mike Shaw, Stephen Gasior, Phil Youngblood & Keith Eric Grant
27	Panel Unanswered Questions II	Matthew Burr Nikolai Mnev, Rob Knop & William Wall
27	History of Antibiotic	Robert Hendrix
26	Dementia	Robert Hendrix



Top 10 YouTubes 2019 Events

Title	Speaker	Views
Precambrian Cambrian Explosion	Shuhai Xiao	77
Panel Unanswered Questions I	Matthew Burr Alex Hastings, Mike Shaw & Stephen Gasior	72
Panel Climate Change	Matthew Burr Keith Eric Grant, Phil Youngblood & William Wall	65
Panel Unanswered Questions II	Matthew Burr Nikolai Mnev, Rob Knop & William Wall	61
Pigments & Colors & Dyes, Oh My!	Mike Shaw	53
Evolutionary Theory Before Darwin	Stephen Gasior	51
VWBPE Innovators in Global Science Education	Matthew Burr Mike Shaw, Phil Youngblood, Stephen Gasior & Rob Knop	44
Science of Science: Big Data	Giuseppe Longo	39
Panel Science Books for a Popular Audience	Matthew Burr Mike Shaw, Stephen Gasior, Phil Youngblood & Keith Eric Grant	35
Panel Animal Behavior	Matthew Burr Linda Morris Kelley	34



Top 5 YouTubes All Time

Speaker	Title	Views
Rob Knop	Stephen Hawking's Last Paper	399
Mary Anne Clark	Mitochondrial Eve	330
Matthew Burr Phil Youngblood & William Wall	Panel The Fermi Paradox	328
Rob Knop	Two Colliding Neutron Stars	319
Rob Knop	Sterile Neutrinos	282



Author	Title	Downloads
Mary Anne Clark	Mitochondrial Eve	109
Transcript Discussion	Are we able to return to Green Living	97
Steven Van Hook	Global Learning	93
Deepthinker Oh	The Black Swan	91
Phil Youngblood	An Hour of Code	86

Top 5 PDF Downloads Website



Readers	Hypothesis by Deepthinker Oh	Most Valued
120	A New Beginning	
60	The Fascination of Science	
49	Philosophy and Science	
58	Islands in Our Mind	
27	No More Punched Cards	
37	When the Earth Was Flat	
43	The Cracks in Time	. 1 st
	SCIENCE CIR	CLE
171	Staring into the Abyss E=mc²	2 nd
35	Music to Soothe the Savage Scientist	
44	Return to the Abyss	
39	Things That Go Bump in the Night	
56	Super Girl and the Invisible Books	2 nd
<u>-</u>	Black Swans: Swimming Again	1 st
	The Trees Are Alive With the Sound of Numbers	



Financial Support

Agustin Martin

David Rayers

Dox Doxiadis

Edgar Altamirano

Mike Shaw

Robert Brown

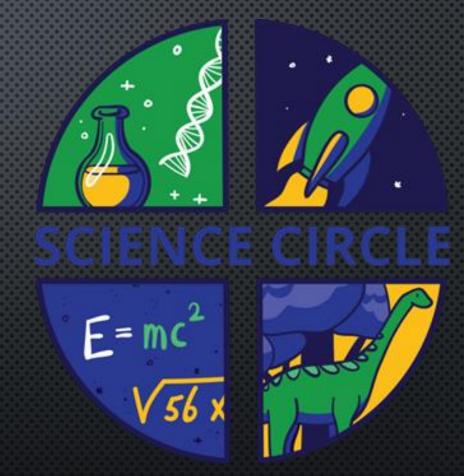
Robert Hendrix

Sarah Doxiadis

Stephen Gasior

Steven Van Hook

William Schmachtenberg







The Science Circle is pleased to announce that board member Dr. Mike J. Shaw, with the Chemistry Department at Southern Illinois University Edwardsville and his collaborator Dr. George Richter Addo at the Department of Chemistry and Biochemistry at the University of Oklahoma, recently received a grant from the U.S. National Science Foundation to study the chemical reactivity and redox behavior of heme-nitrogen dioxide derivatives (CHE-1900181).



NSF evaluates proposals based on two criteria: Intellectual merit and broader impacts.

The broader impacts of this work includes finding avenues to communicate the results, and science in general to the public at large. Recent research indicates that individuals who are differently abled make up a large minority of Second Life users. Second Life represents an avenue for science outreach to a hard-to-reach underrepresented group. The Science Circle is pleased to work with Drs. Shaw and Richter-Addo to facilitate in-world presentations and demonstrations of aspects of the proposed research. The grant will help to support ongoing activities in the Science Circle sim over the next three years.



What is your dearest memory with us in 2019? And Comments

Our first SC concert in May:)

Congratulations for first NSF fund!

Climate Change subjects

Being with you.

Interviewing Ari for the article about his music

I really enjoy all of the talks!

Our Community & Commitment

I hope your continuous support in the new year!

Chan! It was a fun year.

All working together to make SC a success!



Most appreciated presentations, via a short survey

Title	Speaker	Ranked
What is Entropy?	Rob Knop	1 st
Explore Science in Second Life	Phil Youngblood	1 st
History of Antibiotic	Robert Hendrix	1 st
First Image of a Supermassive Black Hole	Rob Knop	2 nd
Our Place in the Universe	Phil Youngblood	2 nd
Whales, Dolphins, Porpoises & Us	Linda Morris Kelley	2 nd
This Isn't your Grandparents' Climate	Keith Eric Grant	2 nd

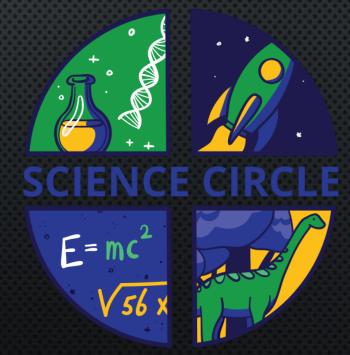


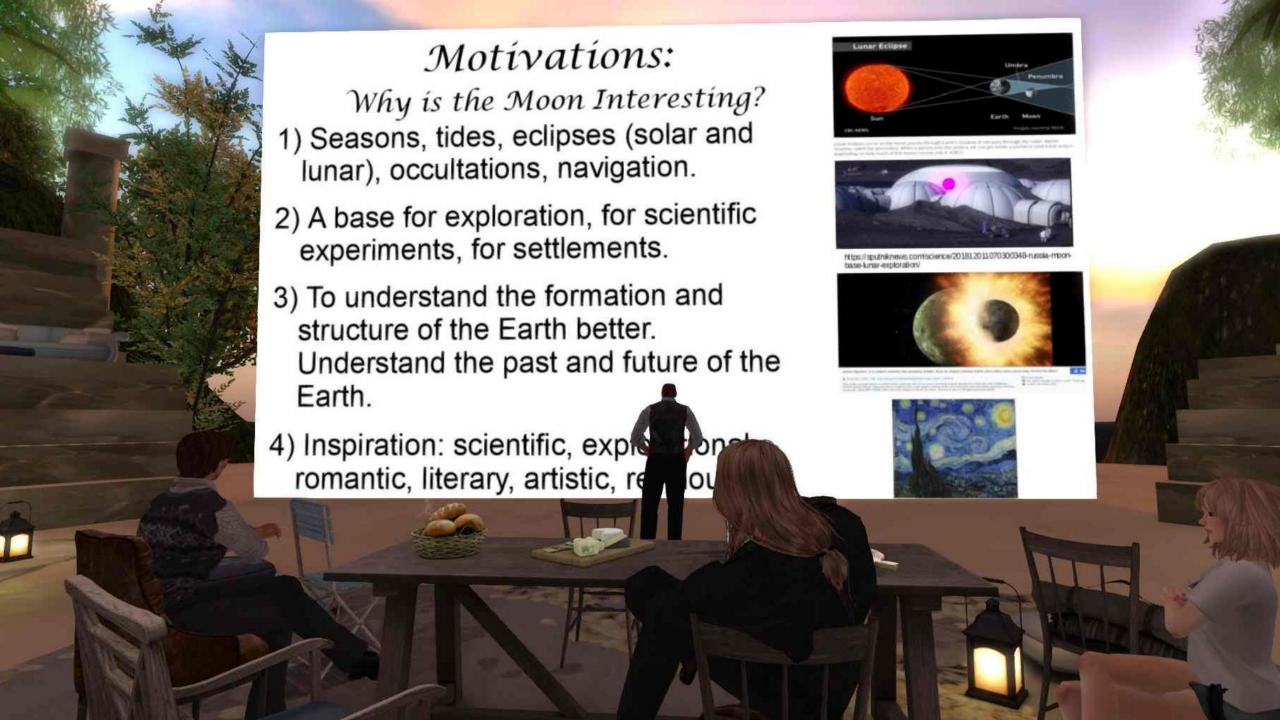
Favorite Panel topics of our members, via a short survey

Climate Change

Matthew Burr Keith Eric Grant, Phil Youngblood & William Wall

Saturday, January 26th





The excursions that have left the deepest impression

Excursion	Guide	Ranked
Coast & Waters of Sub-Arctic	Linda Morris Kelley	1 st
The New Interactive Brain	Lynne Berrett	2 nd
Climate Change Portal	Hajime Nishimura	3 rd



New Developments

Open board meetings

Last Monday of the month at 7 AM PST

Hosts / Hostesses

At all SC activities

Benefit Concerts by Earl Kiech

Quarterly on the 1st Sunday

Hypothesis by Deepthinker Oh

The 1st and 15th of each month

Science Fair

Last Saturday of June

Language Ambassadors

French, Spanish, Finnish, Japanese & Swiss-German

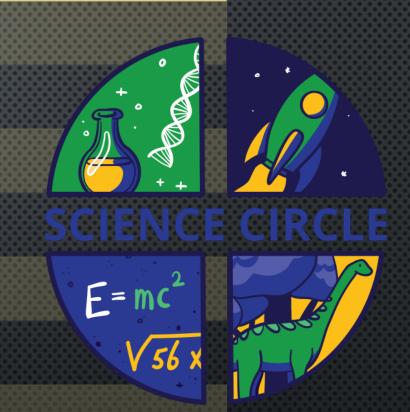
Spanish FB page by Edgar Altamirano

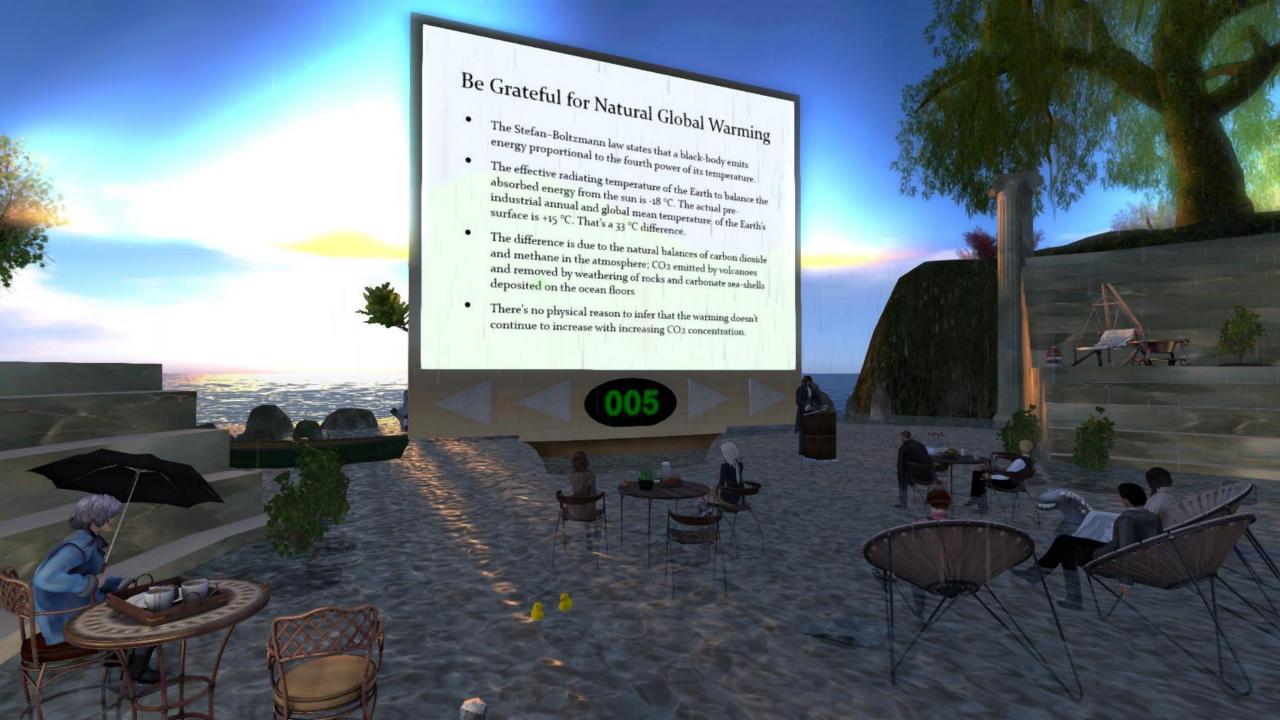
Documentaries

2nd Tuesday every month

"Explore Science in Second Life!" by Phil Youngblood

Classes





My memories in SC:

My stage of familiarization with the activities of the SCF and perceive in which or which activities I could participate in the SCF next year 2020.

I have learned from the interaction with Phillip Youngblood, with his example and availability I understood what the SCF represents in the dissemination and teaching / learning of Science.

I am very grateful to Phillip, Chantal, Jes Stannard and the other SCF researchers for the support received, I think I could gradually participate in most of the SCF activities.

By Edgar Altamirano SC Spanish Facebook publisher Language Ambassador



Achievements on VW education are

Reconstruction of Motoko's Left eyes Art and Right eyes Art idea (Nov 2018) http://jogrid.net/abyss/pdf/Art/SC20181103ArtHistory3.pdf

New exhibits at ISM: Space Shuttle Ride, Newton's Cannon, Stars and Galaxy Clusters and Hayabusa2, and under construction of Space Odyssey ride (Solar system tour)

Support Delia's Coastal Habitats exhibits at Farwell

TP Tour system in a region using LSL-Markdown language at ISM, Abyss and TSC

Improvement of inter-regions TelePortal at TSC

Open of the Climate Change Portal for ESD (Education for Sustainable Development) at Griffony http://jogrid.net/abyss/pdf/SC-trip20191207ClimateChangePortal.pdf

Published "How to build Virtual Museums" (sorry in Japanese language only) https://docs.google.com/document/d/1zB8XLKPKy2kreJvayxwBDPB2IQBUPE2ls6hue1mjx9o/edit?usp=sharing

Remote classrooms with RL science museum in Japan, Sci-Pia http://jogrid.net/abyss/Sci-Pia.htm

Collaboration with Japanese "Science On a Sphere" community (provide mp4 data of NOAA) https://www.youtube.com/playlist?list=PLbzA3qdA8L1XQ5VwGWAJcUx31i3vCjmDo

Hajime Nishimura