

UFSCAR- BRAZIL

# CERTEV PROJECTS EDUCATION AND OUTREACH

KARINA LUPETTI / ANA CANDIDA RODRIGUES



2022

# DEVELOPMENT OF PROFESSIONAL QUALIFICATION STRATEGIES IN GLASS SCIENCE AND TECHNOLOGY

THE "TECHNICIAN IN GLASS PRODUCTION" COURSE  
3-SEMESTER COURSE PROJECT CONCEIVED AND REALIZED IN  
PARTNERSHIP WITH THE PAULA SOUZA CENTER, ABIVIDRO, AND THE  
GLASS COMPANY NADIR FIGUEIREDO



**ANA CANDIDA RODRIGUES**



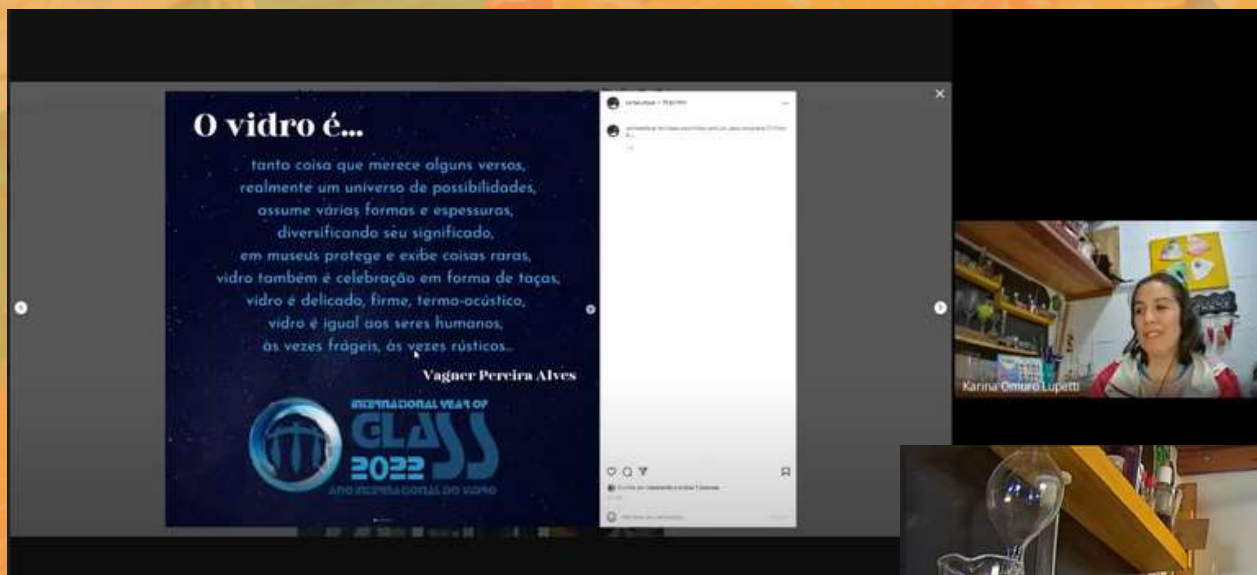
**ADEMIR SERTORI**

## HYALOTECHNICS CLASS

# DIFFERENTIATED CHEMISTRY PRACTICES FOR TECHNICAL COURSE

40 HOURS PROJECT

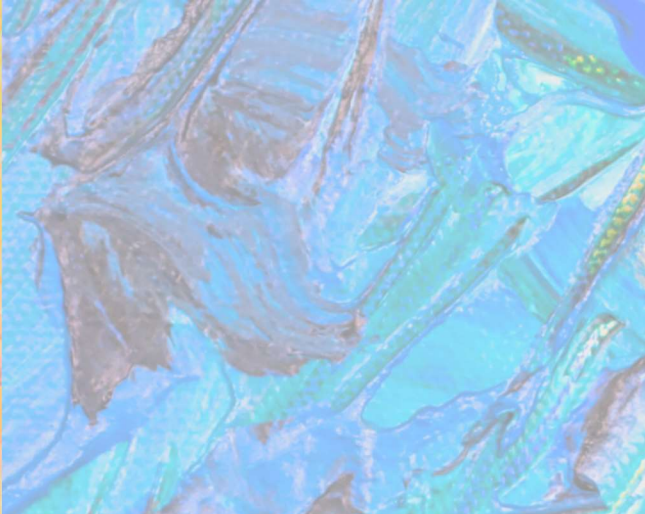
6 HOURS OF ONLINE CLASSES TO TEACHERS OF PAULA SOUZA CENTER  
OUROBOROS ACTIVE METHODOLOGIES



KARINA LUPETTI

# **EDUSCAR**

- **CEPID- FAPESP & INCT-CNPQ FUNDED GROUPS FROM USP AND UFSCAR AND SÃO CARLOS PUBLIC EDUCATION REPRESENTANTS**
- **MISSION OF IMPROVING BASIC PUBLIC EDUCATION IN SÃO CARLOS AND CONNECT UNIVERSITY TO LOCAL SCHOOL COMMUNITY**
  - **PEDAGOGICAL PROJECT PROPOSAL FOR A NEW PUBLIC SCHOOL**
  - **JUNIOR SCIENTIFIC INITIATION (UFSCAR)**
  - **SCIENTIFIC CHALLENGES**
  - **WORKSHOPS, PRESENTATIONS AND ELECTIVE CLASSES (ABOUT GLASS- 2022)**



UFSCAR- BRAZIL

# OUROBOROS: ART, SCIENCE AND INCLUSION



## Goals of Ouroboros Science Communication Nucleous

- Promote a life-transforming driver for people engaging in science extension activities;
- Communicate science in inclusive approaches by means of theatrical plays, musical performances and illustrations;
- Improving personal skills in humanized projects;
- Management by competences, taking account the limitations of each participant visually impaired or with reduced mobility;
- Promote the respect for the social diversity and check how science and the many cultural manifestations are blended together and presented in plays, musical performances and other cultural meetings.

# Methodologies

Presencial or online meetings with undergraduate and graduate students as well as professors from universities and local community members, leading to a rich and diverse range of skills, training and worldview, rendering the creative process of each cultural product.

Practice the empathy towards the participants from several different social backgrounds, especially those with physical disabilities and respect for their social demands throughout the theater play or workshops constructions.

Promote different levels and types of discussion, fostering curiosity about science and scientists, art and artists.

# Looks Group (Olhares)

Since 2009 the Looks Project has been hosted at UFSCar

Supported by

- Undergraduate and graduate programs;
- Research and outreach projects
  
- Partnerships:
  - City Hall;
  - Companies;
  - Volunteers;
  
- Facilities in and out of the university
  - Accessible rooms
    - tactile floor, ramps, elevators
  - Professional drivers;
  - Braille printer and audio description professionals;
  - Signal Language translators;
  - Transport and accommodation;
  - Internet





# Results

- 10 projects (annual reports)
  - Development of didactic and inclusive materials to teach science
  - Inclusive workshops and events (Cultural and Scientific Areas)
  - Scholarship and or professional contracts
- Theater and Musicals (UNESCO/ ONU)
  - Invitations and Presentations
- Learnings:
  - Empathy;
  - Patience;
  - Team work habilities;
  - Science communication;
  - Science Literacy;
  - Occupational Terapy;
  - Intergeracionality



# OUROBOROS SCIENCE THEATER

2014...



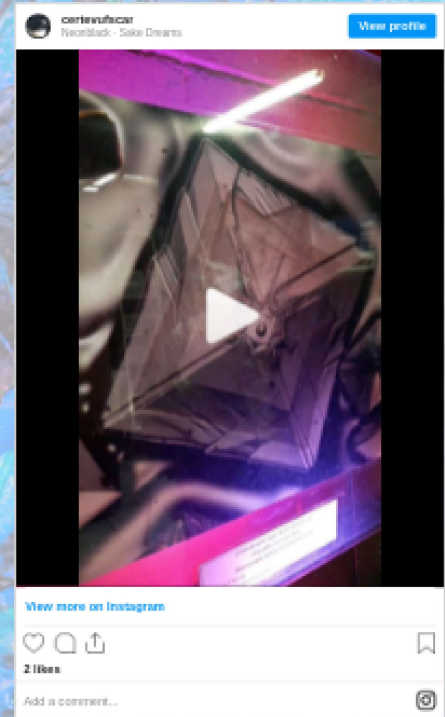
SCIENCE AND ART

2014



# VENTURA SPACE

2009...



SCIENCE AND ART  
INCLUSIVE 2015



# OUROBOROS & LOOKS SCIENCE THEATER



## PETER Q PAN

LOOKING FOR OUROBOROS

CIRCUS, SCIENCE AND INCLUSION

2016



# THE GLASS AGES

THE HISTORY OF GLASS 2018





**ACUSADOS**



*Bel Amador*  
A estilista



*Bã Neves*  
A dona de casa



*Joãa Ernesto*  
O agropecuarista



*Maxuel Souza*  
Poseidon



*Antonio Brambila*  
Cronos



*Andréa Magalhães*



*Giovanna Maia*  
As Cientistas



*Joel Andrade*  
O índio



*Rose Romas*  
Gaia



*Direção geral*  
*Karina Lupetti*



*Marcelo Martins*  
O minerador

Nesse julgamento, os humanos tentam se defender da acusação pelo crime do fim da água do planeta Terra. Quem será o real culpado? Venha descobrir o final dessa história e refletir sobre o futuro de todos nós.



*Tauana Ruteski*  
Afroáite



*Isabella Rios*  
Reia

**Clepsydra: o caso da água**  
**GRUPOS OUROBOROS E OLHARES**

**CLEPSYDRA**  
THE CASE OF WATER  
2019





# SCIENCE ON STAGE EVENTS

SCIENCE COMMUNICATION & THEATER

SINCE  
2007

# FUNNY SCIENCE

2018



SCIENCE THEATER FOR  
EDUCATION





# FUNNY SCIENCE ONLINE

2020



# COMICS AND COMIC STRIPS OF GLASS

WWW.TIRINHASDEVIDRO.WORDPRESS.COM



INTERNACIONAL YEAR OF  
**GLASS**  
2022

CALENDAR

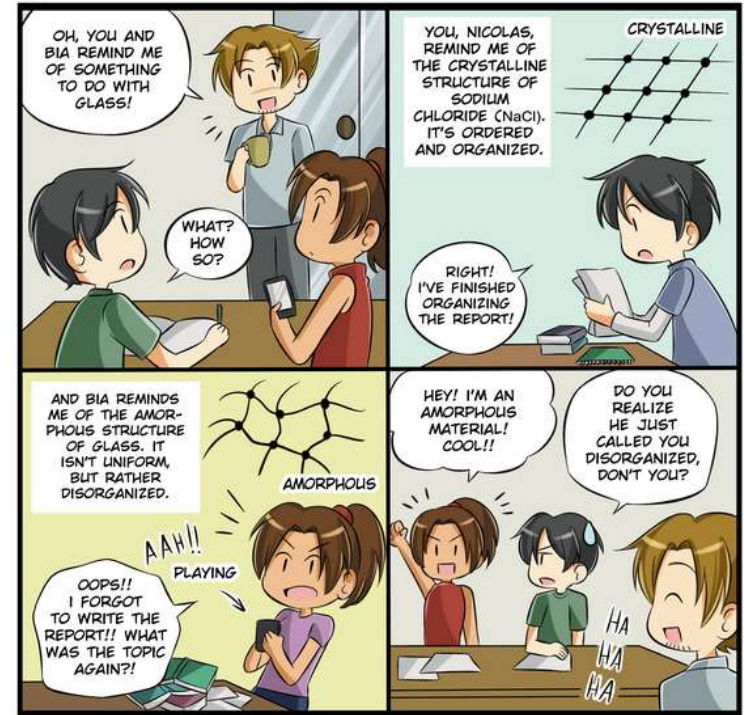
2022



BLOG ACCESS



@tirinhasdevidro



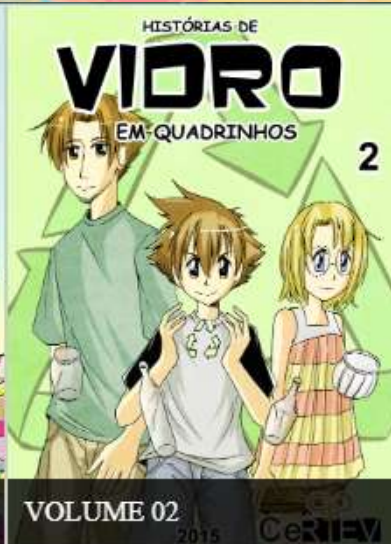
@tirinhasdevidro



VOLUME 01

2015

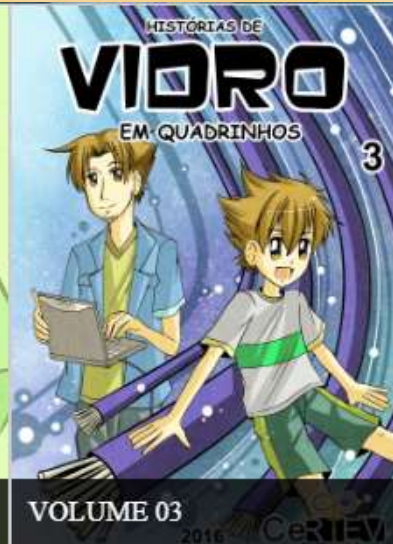
CeRiAV



VOLUME 02

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CeRiAV



VOLUME 03

2016

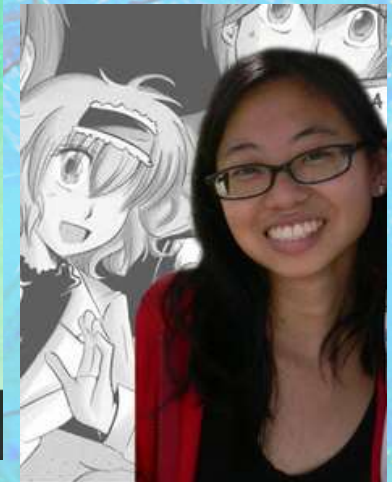
CeRiAV



VOLUME 04

2017

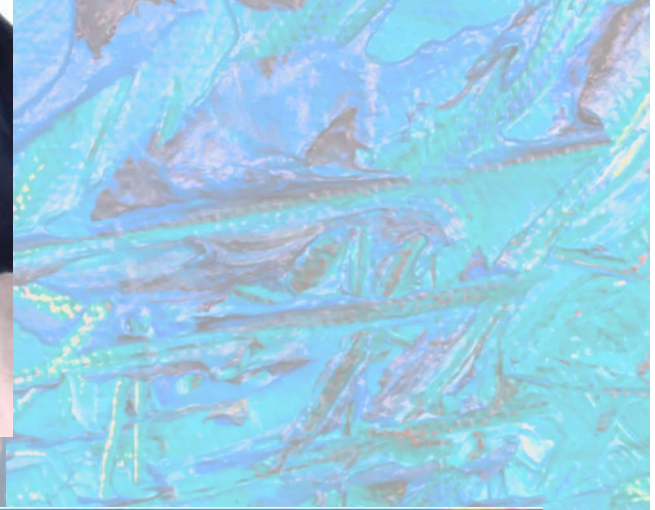
CeRiAV



ADRIANA YUMI IWATA

# CIRCUS OF SCIENCE

SCIENCE COMMUNICATION ON THE BUS





# EDUCARE

SCIENCE COMMUNICATION FOR KIDS

SINCE 2007





# VITREOUS SOUNDS

BRAZILIAN SONGS AND GLASS SCI-ART

PCST- NEW ZEALAND 2018



2022



TONINHO BRAMBILLA

JOEL ANDRADE

NICOLAS ARIAS



MAX FERREIRA



ROSE ALVES



BÃ NEVES



BEL AMADOR



SELMA HEBLING



KAZIMA LUPETTI



ORQUESTRA EXPERIMENTAL DE VIDRO  
CIÊNCIA E ARTE INCLUSIVA



# L'ÀQUA

## MUSIC AND THEATER





interprograma

# Minuto Vítreo

RÁDIO 95.3  
UFSCar

VITREOUS MINUTE  
PODCAST AT RADIO UFSCAR



MINUTO VÍTREO

**MORE THAN 100 PODCASTS ABOUT  
GLASS RESEARCH AND CURIOSITIES**



**THE GLASS IS  
SO MUCH THAT DESERVES A FEW VERSES,  
REALLY A UNIVERSE OF POSSIBILITIES,  
TAKING ON VARIOUS SHAPES AND  
THICKNESSES,  
DIVERSIFYING ITS MEANING,  
IN MUSEUMS IT PROTECTS AND DISPLAYS  
RARE THINGS,  
GLASS IS ALSO A CELEBRATION IN THE FORM  
OF GOBLETS,  
GLASS IS DELICATE, FIRM, THERMO-ACOUSTIC  
GLASS IS EQUAL TO HUMAN BEINGS,  
SOMETIMES FRAGILE, SOMETIMES RUSTIC...**

**VAGNER PEREIRA**

- UFSCar projects have engaged thousands of students of the university;
- Ouroboros & CeRTEV are working together since 2014 practicing science communication and art;
- The social technologies provided unexpected transformative paths, allowing people to be relocated in society contributing for scientific literacy by science communication.
- IYOG Activities
  - Videos
  - Virtual Museum of Glass
  - Container Glass Museum
  - Symposium on Glass
  - Elective class- High School
  - Circus of Science
  - Vitreous Sound presentations
  - Contest: The glass is...

