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, ABVIDRO, 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)
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
CLEPSYDRA
THE CASE OF WATER
2019
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
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...