



# 2022 ILDA Awards

THE WORLD'S BEST LASER SHOWS, AS JUDGED BY THEIR PEERS





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**Cover photo**  
"Tesla Coil" by LOBO  
First Place, Laser Photography, 2022

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ILDA requires its Members to perform safe and legal laser shows. **All Members submitting ILDA Award entry videos have explicitly certified that the laser effects depicted meet safety standards, as well as all applicable laser safety laws and regulations** (including laws for audience scanning) in the location where the show was performed.

- Entries filmed in a studio, with no audience, can use any power and can scan anywhere, even if the original show was intended for an audience.
- However, if the video depicts an audience watching the laser show, or has lasers near performers, then the show must be safe for the audience and performers, and must comply with all applicable laws and regulations.

### ILDA Awards safety review

In addition to entrant statements, ILDA reviews every entry for any potential safety issues. **ILDA has the right to remove or disqualify an entry if, in our opinion, the show violates or appears to violate safety standards, laws and/or regulations.**

Note that despite ILDA's review process, ILDA cannot absolutely certify that an Awards entry is safe and legal. This is ultimately the responsibility of the entrant.



**If you have a laser or a laser projector, do NOT attempt to perform the type of audience-scanning effects seen in ILDA Award-winning videos 1) without qualified expert safety planning and supervision and 2) without prior written permission from the appropriate authorities. These authorities may include federal, state and local laser safety regulators, venue operators, and insurance companies.**



### **Artistic Awards**

Judging was done in July 2022 via online viewing and voting. Judges were Christine Bernat, Brad Billet, Ross Blitz, Mike Dunn, Olga Eser, Derek Garbos, Christine Jenkin, Lucas McIntyre, Dave Nash, Theo Petrides, Nisha Ramnath, Leon Ren, Michael Roberts, Karl Rothweiler, Merlin Schaadt, Nick Squire, Jonas von Stockhausen, Sean Zhang. Judging coordinator was Awards Committee Chair Richard Gonsalves.

Together they judged 107 video entries from 28 ILDA Members. There were 47 winning entries, from 21 different ILDA Members

Note that for each of the artistic award entry categories, there were three judges. However, these were not always the same three people. A person is not allowed to judge any category in which they had an entry, which is why multiple persons serve as judges.

### **Laser Photography and Career Achievement Award**

Twenty Laser Photography entries were judged by ILDA Members voting online, July 10 - 18, 2022.

### **Career Achievement Award**

Six nominees were presented to ILDA Members, who voted online July 10 - 18, 2022.

### **Fenning Technical Awards (standard and IDN)**

Technical entries were judged via online discussion of a three-member panel that concluded July 25, 2022. Judges Tim Hallmark, Horacio Pugliese, and Casey Stack evaluated eight entries from five ILDA Members.

### **Laser Jockey**

Judged by attendees watching the Laser Jockey performances live during the ILDA Conference, November 4, 2022.



# 3

Third Place

**20 Jahre SETG**  
VisuTek e.U.



**Credits:** Art Director and Laser Programmer: Markus Voggenberger; Setup Laser and Operating: Helmut Gruber; Camera: Manuel Lidauer  
**Music:** Black Rhomb, "Invisible Edge"; Arthur Basov, "Get Out Alive"; Arthur Basov, "Legendary Stone"; Audiomachine, "Charging The Keep"

A commercial railway company wanted to celebrate their 20th anniversary with a brilliant opening multimedia show. The main elements should be laser, light and video, the music should be rock themed. A film crew was already booked by the company and we straight jumped into this project as the overall art director. We created a storyboard, chose the music, designed a stage and the show which was optimized for video, light and laser effects including a laser bending scene with a dancer. We also used a 5.1 surround sound system and gave the audience no time to calm down.



# 2

Second Place - Corporate Show

## Hyundai Tucson L Launch Show laserwitchery



**Credits:** Designer/Programmer: Leon.RJ

**Music:** Hyundai, "Original music"

The venue is a ring-shaped theater with high and low drops. Our goal is to use ten laser projectors to make the laser performance impactful while ensuring the front and side audience's perception at the same time. We used a staggered semi-circular array to install the lasers: the six lasers on the upper layer can not only illuminate all the audience, but also illuminate the stage, and can also create a third-layer light area through the reflection of the stage. The four lasers on the lower layer enrich the laser atmospheric effect from below.



# 1

**First Place** - Corporate Show

## **Wirtgen Invest Inauguration**

Merlin Schaadt



**Credits:** *Laserdesign: Merlin Schaadt; Creative Director: Alex Hennig*

**Music:** *Nightwish, "Poet and the Pendulum"*

For the inauguration of the headquarters of a private investment company, we created a fanciful show staging the building itself as the star of the evening. A generous set of lighting outside and inside the building were the basis for a brilliant laser mapping on the basis of five laser projectors, bringing the facade of the building to life. Another five laser projectors created atmospherics to put the audience right in the center of the show performance. On top of that, large pyro accents, fire artists and an aerial artist suspended from a helium balloon gave the show a strong emotional impact.



# 3

Third Place

### **Alba August live at Grammis** Laserimage AB



**Credits:** *Programming and Operator: Love Karlsson; Laser Tech and Laser Safety Officer: Johan Lindell*

**Music:** *Alba August, "Isabelle"*

Alba August is a new, upcoming artist in Sweden who was performing at Grammis which is a Swedish equivalent to the Grammy awards. She wanted her performance to be something unique and chose to use lasers as her main effect. Her creative team wanted something new and not only the type of lasers that you usually see (green and cyan beams). They went for a peach/pink look for the song and wanted solid laser shapes which can be a challenge especially when doing a TV show. But working closely with the rest of the team we managed to pull it off. A unique look for Alba's song was achieved.

# 2

Second Place

**På Spåret Gameshow 2021**  
Laserimage AB



**Credits:** Programming and Operator: Anders Edstöm

**Music:** Lucas Graham, "7 Years"; Stevie Nicks, "Edge of Seventeen Johnossi edit"; Marie Fredriksson, "Den bästa dagen Veronica Maggio edit"; Nationalteatern, "Kolla Kolla vargas och lagola edit"; Lionel Richie, "Say You Say Me vargas och lagola edit"

The Swedish gameshow På Spåret has been running for over 30 years. This year they invited Vargas & Lagola to play there. They have a unique performance where lasers play an essential part. A new guest artist was brought in every week to make the show more interesting. This also gave us an opportunity to create different looks and be more creative.

# 1

**First Place** - Live TV Show

## **Man on the moon at Swedish Idol** Laserimage AB



**Credits:** *Programming and Operator: Love Karlsson; Laser Tech & Laser Safety Officer: Johan Lindell; Laser Tech: Claes Magnusson*  
**Music:** *Alan Walker featuring Benjamin Ingrosso, "Man on the Moon"*

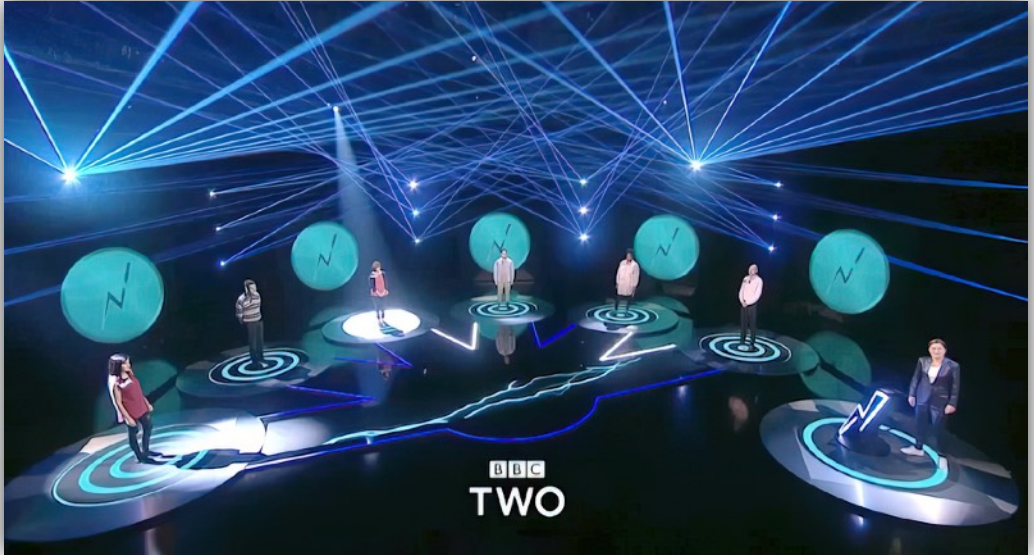
The Swedish finals of the world known TV show Idol invited the Norwegian dj Alan Walker to perform his new song together with Benjamin Ingrosso. The creative team wanted a futuristic sci-fi look and decided to use lasers to create a portal/hologram in which the artists are performing. We suggested to have two lasers from above to create a laser cage surrounding them. To make it more interesting we also added atmospheric lasers together with some diffraction burst effects.



3

Third Place

**Lightning**  
ER Productions



**Credits:** *Laser Design: Marc Webber; Laser Programmer and Operator: Colin Clarke*

**Music:** *TV soundtrack and music notes*

The lasers are used as part of the lighting rig to enhance moments during the games show.



# 2

Second Place - Edited Film/TV/Video

## Letter Tutto Accade - San Siro

Artech of Italy



**Credits:** Head of Project: Luca Toscano; Laser Operator and Programmer: Martin Gabco; Programmer: Pieterjan Ruysch; Network Manager: Marco Malatesta; Laser Technicians: Simone Balotta, Matteo De Salvia; Partner: Kvant Show Production

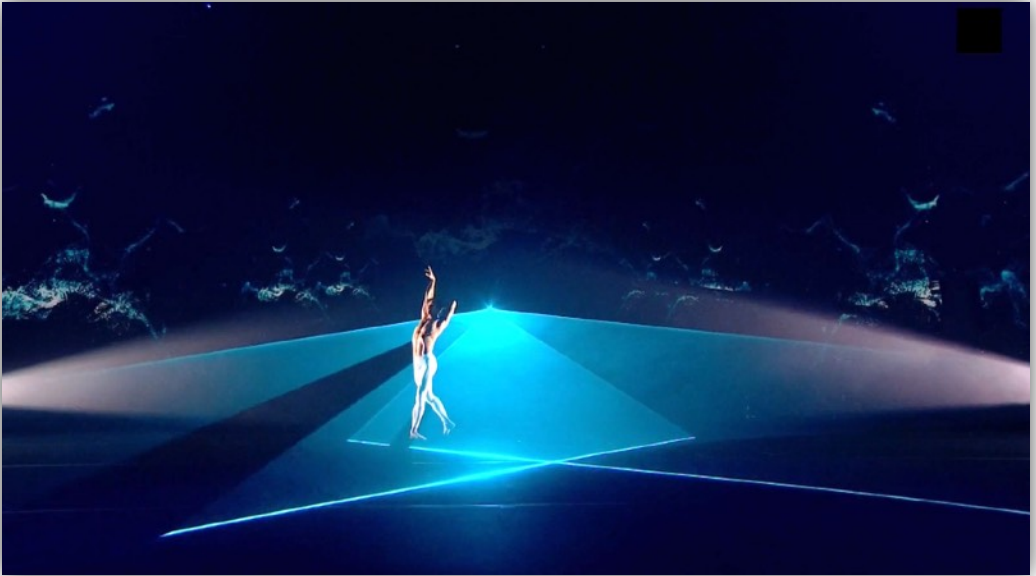
**Music:** N/A

Alessandra Amoroso will be the second woman in the history of Italian music to perform solo at Sansiro Stadium in Milan, Italy in 2022. She announced it to her fans one year before; she read an emotional letter about her life in the center of the empty stadium around laser graphics.

# 1

**First Place** - Edited Film/TV/Video

**Waves**  
Laser Entertainment



**Credits:** Performer: Roberto Bolle; Choreographer: Max Volpini; Light Designer: Valerio Tiberi; Lasershow Designer and Programmer: Lorenzo Pompei

**Music:** Davide Dileo, "Waves"; Peter Dickinson, "Trois Gymnopédies: III. Lent et grave"

This show was created by the dancer Roberto Bolle to give classical dance a more contemporary identity. Classical dance, which for too long has been an art appreciated by an elite audience, with technology acquires added value, great visual strength and reaches a wider and more contemporary audience brought on tour to several theaters. In this case Roberto performed on the TV show "Danza con me" broadcast on 1st January 2022 at La Scala Theatre in Milan, Italy.





# 3

Third Place

### The 800th anniversary of Alexander Nevsky Orion-Art Multimedia



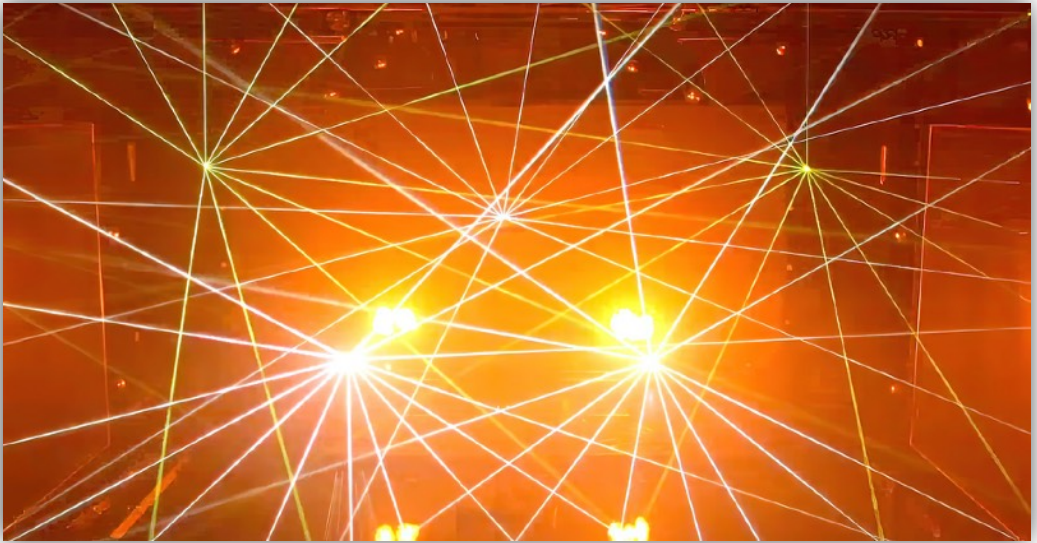
**Credits:** *Producer: Alexey Shishkov (Lasermaster); Scenario: Vadim Delnov (Lasermaster); Laser Graphics and Animations: Kirill Nikitochkin & Max Ischik (Orion-Art); Video Designer: Dmitri Groshikov (Lasermaster); Project Supervisors: Alexander Timofeev & Taras Viter (Orion-Art)*  
**Music:** *Modest Mussorgsky, "Pictures at an Exhibition" (N9); Sergey Prokofiev, "Alexander Nevsky"; specially recorded announcer's voice*

This multimedia show was prepared and presented in 2021 in Pskov, the city where the Russian saint Prince Alexander Nevsky reigned, in honor of his 800th birthday. The Middle Ages were very difficult and bloody times. This panoramic laser show illustrates the life of Prince Alexander, his service to the Motherland and merits in the defense of the Fatherland. The multimedia performance was shown on the territory of the Pskov Kremlin twice every evening for two weeks.

# 2

Second Place

## **EuroSights - Extended Beam** LOBO



**Credits:** Show Design: Florian Skrzypczak

**Music:** Robert Northcott, "War Cry" (just the last part was used for the beam show)

Originally part of a multimedia show intended as a corporate framework, this final beam show section was separated into its own, standalone segment titled "EuroSights – Extended Beam." As the name suggests, it has been extended, re-arranged and augmented with fire effects and moving lights, which add a whole new level to this already sharp and precise performance. With eye-catching motions and striking shapes, the designer conjured an epic visual companion to the music, casting a spell over the audience before gently fading.

# 1

**First Place** - Laser Show with Added Effects/Multimedia

## **The Mystery of the Lost Water** Laser Entertainment



**Credits:** *Illustrator and Laser Programmer: Lorenzo Pompei; Sound Design and Visual: Donato Tranquillino Minerva; Light and Water Fountain Programmer: David Todaro*

**Music:** *Various artists*

Water fountains, colors and plays of lights, lasers and videos in the splendid scenery of Lake Valbione, then the story on the water of the students of the third class of Primary School of Temù di Ponte di Legno (Brescia, Italy). It is the fable "The mystery of Lost Water", written by pupils to reflect on the importance of water, which in the evenings garnered great consensus among the public and tourists. The story aims to raise awareness of the importance of correct human behavior to preserve glaciers, reduce the impact of climate change and preserve the precious asset: water.



3

Third Place

**Soundstorm Festival 2021 Riyadh**  
ER Productions



**Credits:** *Laser Design: Ryan Hagan, Sam O'Reardon, Squib and Sam Tozer; Laser Programmer & Operator: Seth Griffiths, Harry Boyde, Alex Oita, Corey Newton, Charle Jongerans, Christian Smith, Scotty Owen and Tyler Barbone*  
**Music:** *Various artists playing across the 4 days*

The world's biggest festival with over 730,000 attendees. Seven stages were supplied using a variety of fixtures, totaling 480. The main stage had 100 30W lasers on it. The EDM Festival is the largest in the world and broke several records including for tallest temporary structure.

# 2

**Second Place** - Nightclub/Disco/Music Festival Show

## **Dreamstate Europe**

Visual Sensation laser shows & technologies



**Credits:** *Laser Designer: Maciej Lukaszewski*

Video footage of an all-night event taking place in a closed hall. The show included pre-programmed elements as well as a live performance.



# 1

**First Place** - Nightclub/Disco/Music Festival Show

**Escapade**  
LaserTech Canada Inc.



**Credits:** Laser Installation: Derek Garbos, Nicolas Squire, Joel Decarie; Laser Operator: Nicolas Squire; LSO: Joel Decarie.

**Music:** The Chainsmokers, "Various mixes"; Steve Aoki, "Various mixes".

This music festival required quick reaction as it was not time-coded. All cues were performed live. Emphasis was placed on separation of effects across the projectors giving a wider look to the stage with beams "jumping" from side to side, all with great synchronization.



3

Third Place

**Dua Lipa World Tour 2021/22**  
ER Productions



**Credits:** *Laser Design: Marc Webber; Laser Programmer & Operator: Seth Griffiths*

**Music:** *Dua Lipa “Myself”*

The award-winning Dua Lipa wanted high energy for her performance of “Myself”. The lasers were tightly programmed to highlight musical moments in the track .



# 2

Second Place

**Kacy Musgraves U.S Tour 2021**  
ER Productions



**Credits:** *Laser Design: Marc Webber; Laser Programmer & Operator: Harry Boyde*

**Music:** *Various tracks from Kacy Musgraves*

Bold colourful laser looks were the name of the game here. High-powered units created ceilings of rainbow including grating looks over the crowd.

# 1

**First Place** - Live Stage Show

**Tame Impala World Tour 2021/22**  
ER Productions



**Credits:** *Laser Design: Marc Webber; Laser Programmer & Operator: Harry Boyde*

**Music:** *Various tracks from Tame Impala*

The psychedelic band required a few different applications including abstract looks projecting back onto stage



# 3

Third Place

### **Christmas Magic** Dreamlaser



**Credits:** Art Director: Alice Soboleva; Laser Designers: Olga Savelyeva, Anna Usova

**Music:** N/A

Christmas laser architectural illumination of the Church of the Ascension in Kolomenskoye. The Church of the Ascension is the main architectural masterpiece of Kolomenskoye, which has no analogues in the world. The monument is included in the list of UNESCO World Heritage Sites. It was very important for us to make an elegant illumination of the contours of the church and convey the Christmas atmosphere through the idea of the Ascension and the symbol of Christmas — the Bethlehem star.

# 2

**Second Place** - Multi-Effect Laser Show

## **Show Must Go On** Lasershow-Creation



**Credits:** N/A

**Music:** Queen, "The Show Must Go On"

This show is the result of a long studio night during the pandemic lockdown after the team's decision to commit doing something motivating during those strange times. The atmospheric part of the show consists of several increases in effect density and volumetric effects, which follows the basic concept of this outstanding piece of music (slow and relaxed in the beginning / bright and shiny in the second half until the end). As hard the last months have ever been, Show must go on, folks!

# 1

**First Place** - Multi-Effect Laser Show

**Ecology**  
Dreamlaser



**Credits:** Art Director: Alice Soboleva; Laser Designers: Olga Savelyeva, Anna Usova, Mikhail Shebukov

**Music:** Annette, "Believe (Tango)"

Human life is inextricably linked to the natural environment. At present, there are increasing threats to the environment on Earth. Some hazards are local, others have become universal. In the laser show we have drawn attention to environmental problems and how important it is to take care of the environment and protect the world around us.



# 3

Third Place

### **Stolen Christmas** Dreamlaser



**Credits:** Creative Concept: Olga Savelyeva; Art Director: Alice Soboleva;  
Laser Designers: Olga Savelyeva, Anna Usova, Mikhail Shebukov **Music:** N/A

The concept of the show is based on the idea that kindness lives in the soul of every creature, even the most formidable. It is in our power to spread kindness around us. We developed a script, created a character concept. We then created 3D models, set up the rig and animation. The rig was set up not only for the characters' bodies, but also for the faces so we could work through the facial expressions. We also thought through the music and sound design, which conveyed the characters' personalities and immersed the viewer in an amazing story.



# 2

Second Place

## New Years Eve

Visual Sensation laser shows & technologies



**Credits:** *Laser Designer: Anna Nadolna*

**Music:** *Tim McMorris, "New Year's Song"*

[No Statement of Intent submitted]



# 1

**First Place** - Graphics Show

## **Witches**

Visual Sensation laser shows & technologies



**Credits:** *Laser Designers: Anna Nadolna, Jaroslaw Nadolny*

**Music:** *Miki Higashino, "Withered Earth"*

[No Statement of Intent submitted]

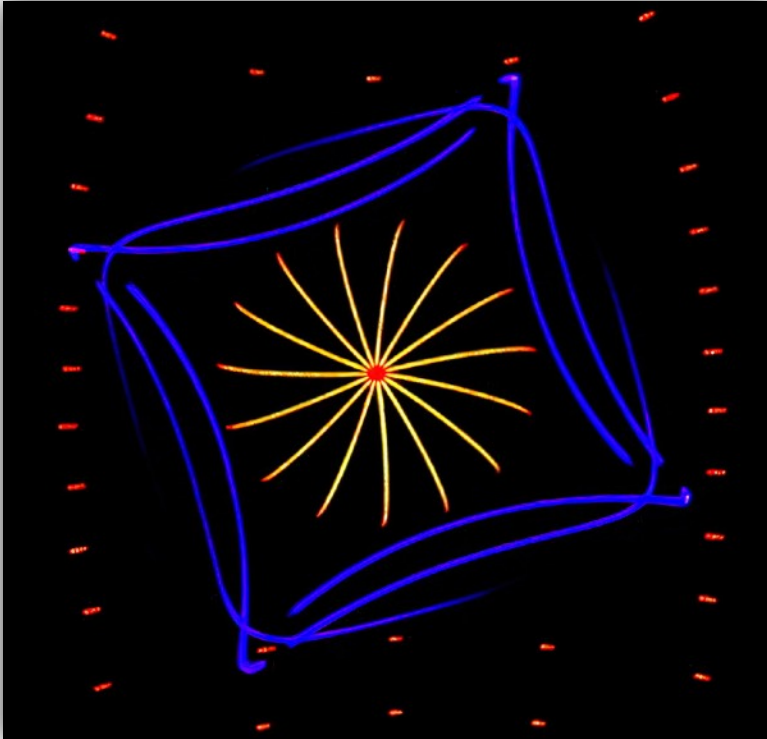


3

Third Place

## Language is a Virus

Christopher Short



**Credits:** Christopher Short

**Music:** Laurie Anderson, "Language is a Virus (Remastered)"

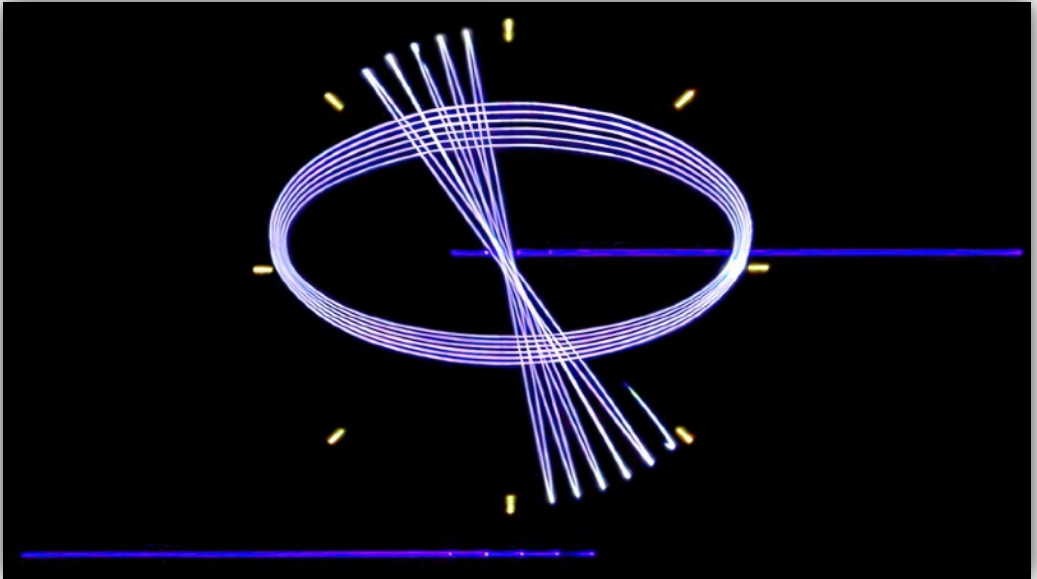
Laurie Anderson is one of the world's greatest performance artists and this song has always appealed to me. The concept of language as a virus is the creation of beat poet William S. Burroughs. I wanted a show that felt like neon stabs on rainy streets and a style that evolved as the song progressed.

# 2

Second Place - Abstract Show

## The Humans are Dead

Christopher Short



**Credits:** Christopher Short

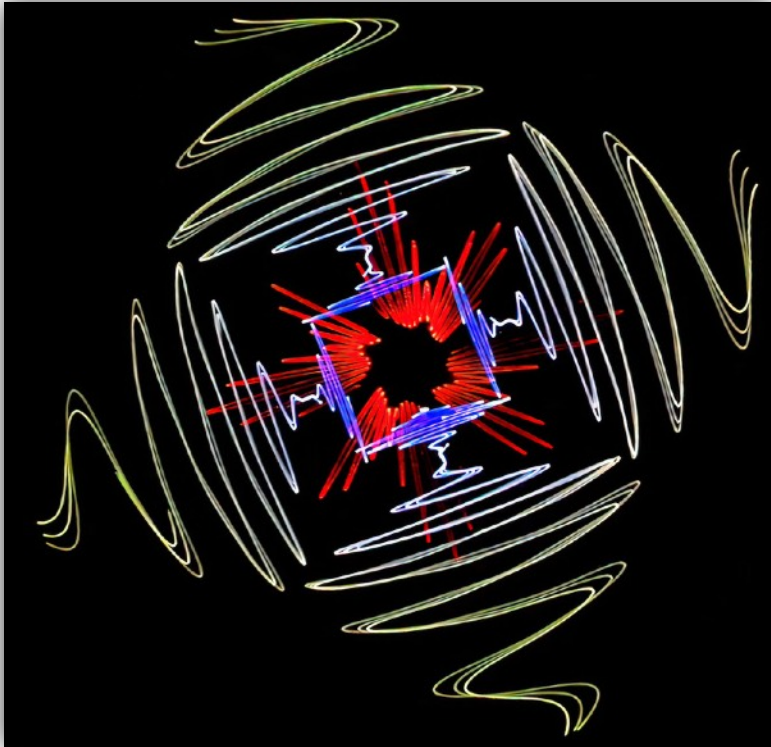
**Music:** Flight of the Conchords, "Robots"

This started as a simple fun show to a ridiculous joke song about the robot revolution murdering all the humans. It rapidly became more complex with 3D abstracts and the worlds lamest cartoon robots. No humans were harmed in the making of this show.

# 1

**First Place** - Abstract Show

**Species F.**  
Christopher Short



**Credits:** Christopher Short

**Music:** Christopher Franke, "Species Feces"

I wanted to make a piece where the abstracts felt like organic life forms; living things with mass and purpose. Picking this more ambient music allowed me to explore the intent of the abstracts and make something that existed on a larger and more cinematic scale. I also focused on transitions between scenes and the narrative story of the abstracts.

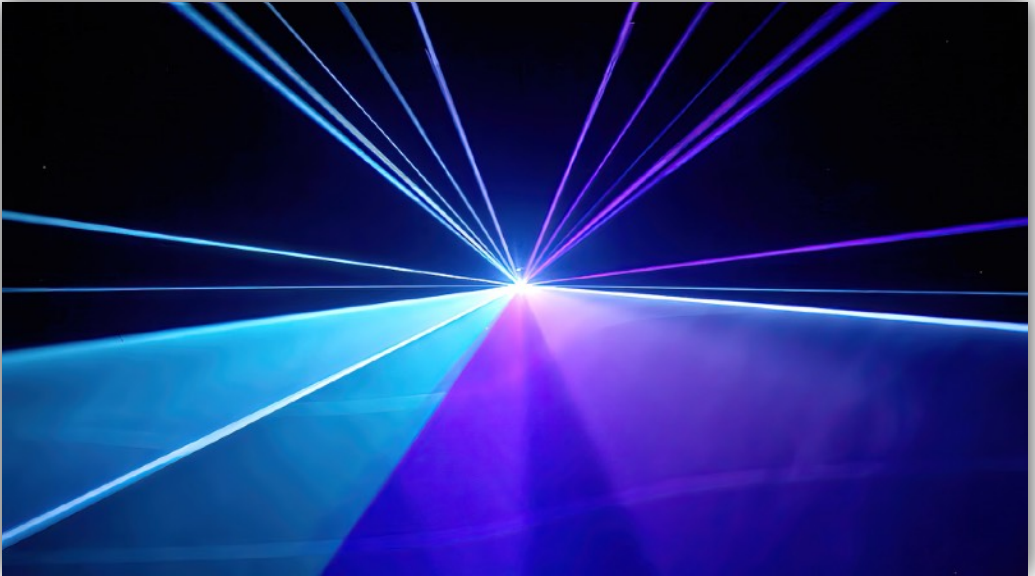
## Beams/Atmospherics Show for a Single X-Y Scanner Pair



# 3

Third Place

**Freesol**  
Victor Bian



**Credits:** Programmer: Victor Bian

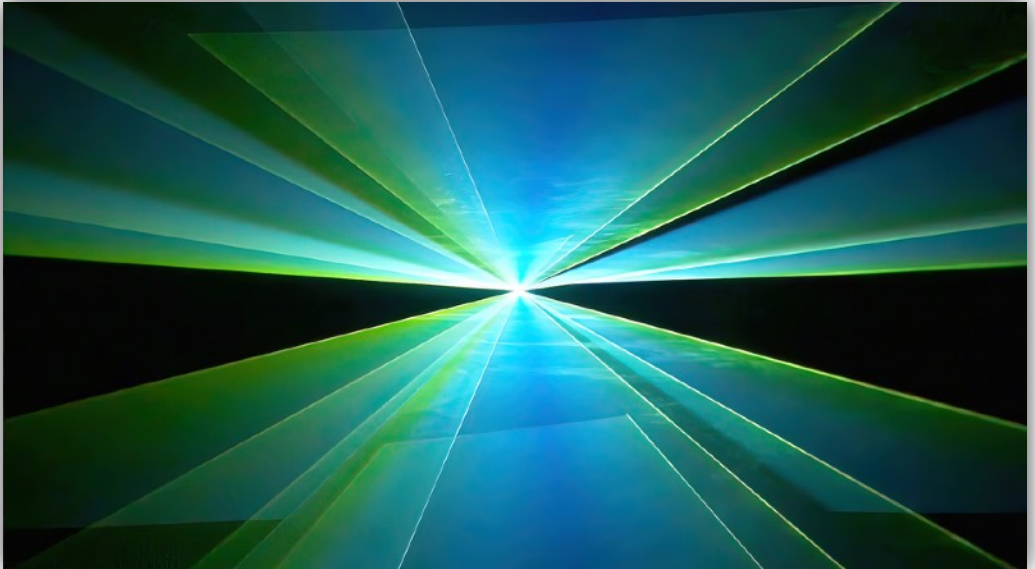
**Music:** Seven Lions "Freesol"

In this show, I wanted to demonstrate the beauty of hot beams. I used Quickshow to program this show.

# 2

**Second Place** - Beams/Atmospherics Show  
for a Single X-Y Scanner Pair

**Brass Devil**  
VisuTek e.U.



**Credits:** *Programmer: Markus Voggenberger; Setup Laser and Camera: Helmut Gruber*

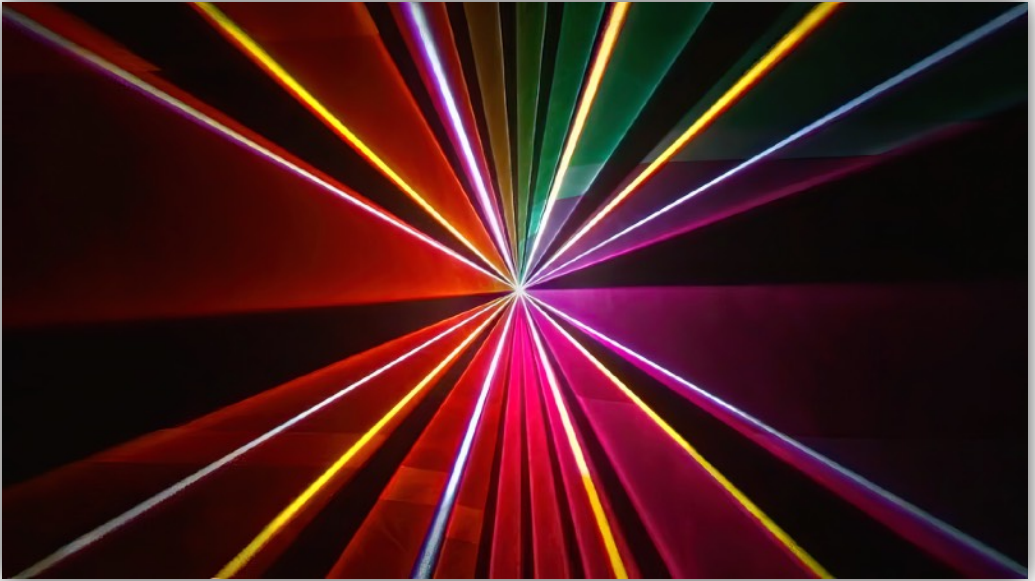
**Music:** *Parov Stelar, "Brass Devil"*

Parov Stelar's music style is based on a combination of jazz, house, electro, hip hop and pop. We chose the 2020 released song "Brass Devil," an electro swing style piece of music that sweeps you away with its beat. With our show we try to represent and visualize the magic of this music.

# 1

**First Place** - Beams/Atmospherics Show  
for a Single X-Y Scanner Pair

**Glorianna**  
Phantom Media



**Credits:** *Owner of Phantom Media/Laserist: Sean Zhang Jifeng*

**Music:** *Vangelis, "Glorianna"*

Making a show with this smooth, warm, glorious feeling piece of music instead of a fast-beating soundtrack trying to catch every single beat with effects and cues, has been on my to-do list for quite a while. So I took this opportunity to complete it. I designed this show in a structured way in which the story could evolve naturally and be better told. For first half of the show I tried to always bridge two cues by a transition to avoid clean cut (screen goes completely dark).



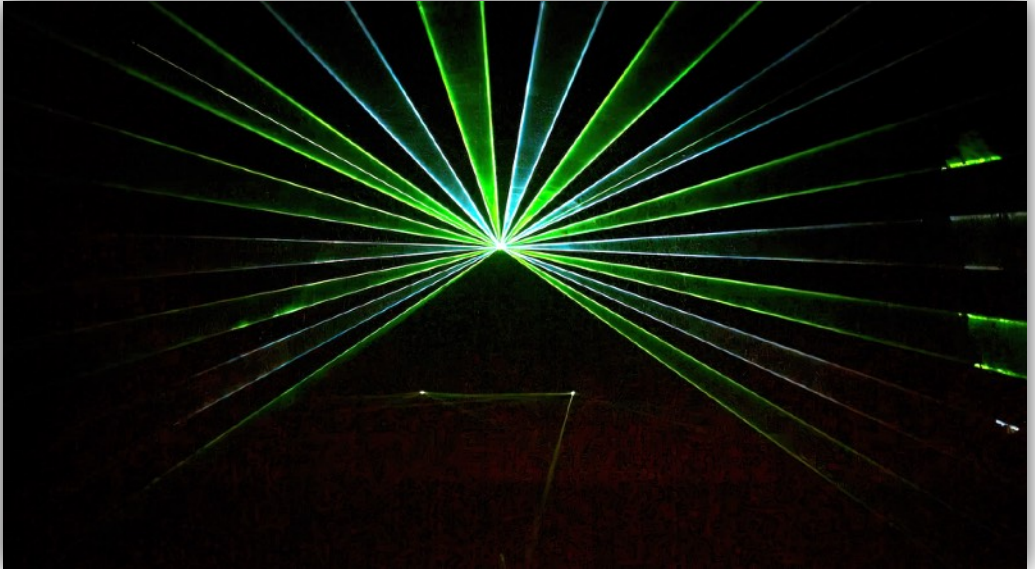
## Beams/Atmospherics Show with Add-On Effects



# 3

Third Place

**Crazy Chicken**  
LOBO



**Credits:** Show Design: Diana Coenen

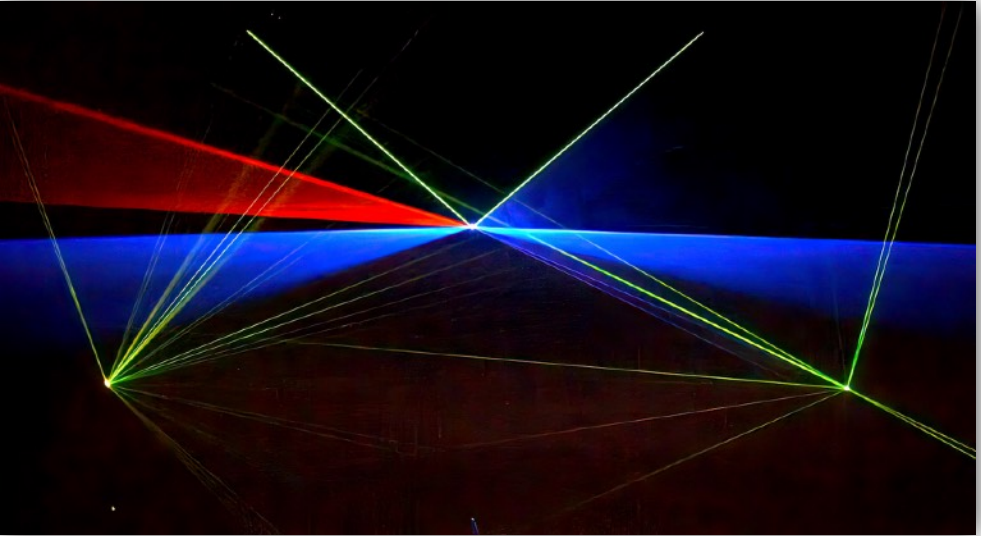
**Music:** Onderkoffer + Black & White, "Bella Ciao Remix"

This new laserist's debut takes a rather unexpected, more comical approach to the medium of a beam show: Going for a more provocative direction, the harsh EDM remix of a familiar tune sets the tone for a beam show that intends to entertain and uplift the audience with a variety of effects and motions. Dancing lasers ensnare the spectators as they bounce and swipe in sync with the music, inviting them to dance along like a "Crazy Chicken" to the droning beats and have a clucking good time.

# 2

**Second Place** - Beams/Atmospherics Show with Add-On Effects

## **Shining** LOBO



**Credits:** Show Design: Diana Coenen

**Music:** VIZE Feat. Laniia, "Stars (VIP Extended Remix)"

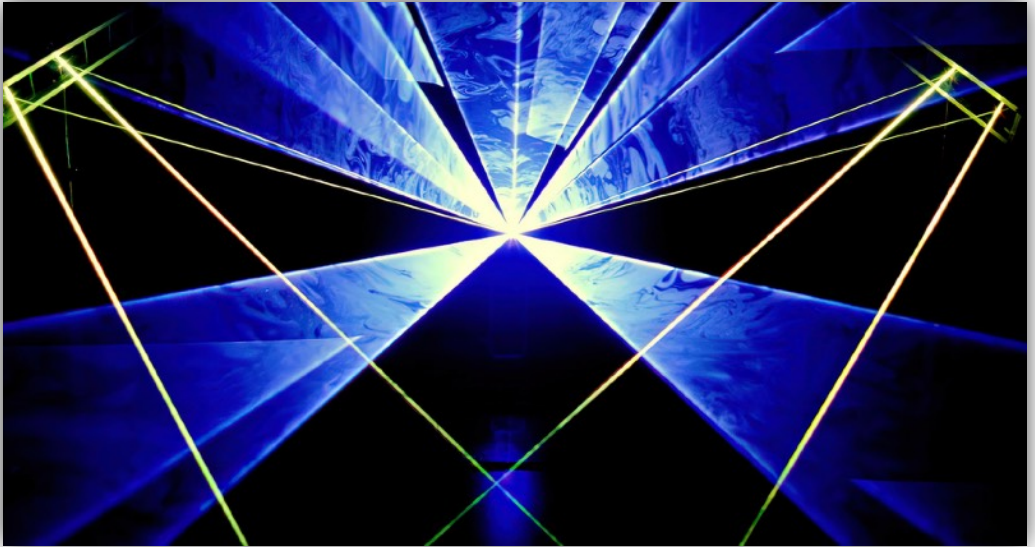
This beam show is an aspiring laser designer's testament to their development both in a personal sense, but also in their skills and dedication to their craft. With a highly danceable backing track, "Shining" lives up to its title of being full of energy and momentum. One can definitely imagine this kind of vivid laser performance in the setting of a dance club, fitting right in with the smaller, more intimate scale of a night out partying with friends, inviting the audience with its swift changes in motion and "crisp" shape-work.

# 1

**First Place** - Beams/Atmospherics Show with Add-On Effects

## **Your Time**

Merlin Schaadt



**Credits:** *Laserdesign: Merlin Schaadt*

**Music:** *Supreme Desices & David Klemencz, "Now Is Your Time"*

Coming back to Your Time! This show plays a lot with different mirror effects, but not only the classic known style like single beam reflections. I wanted to create fresh effects, which allows new illusions. Every sound of the music is interpreted as laser light.

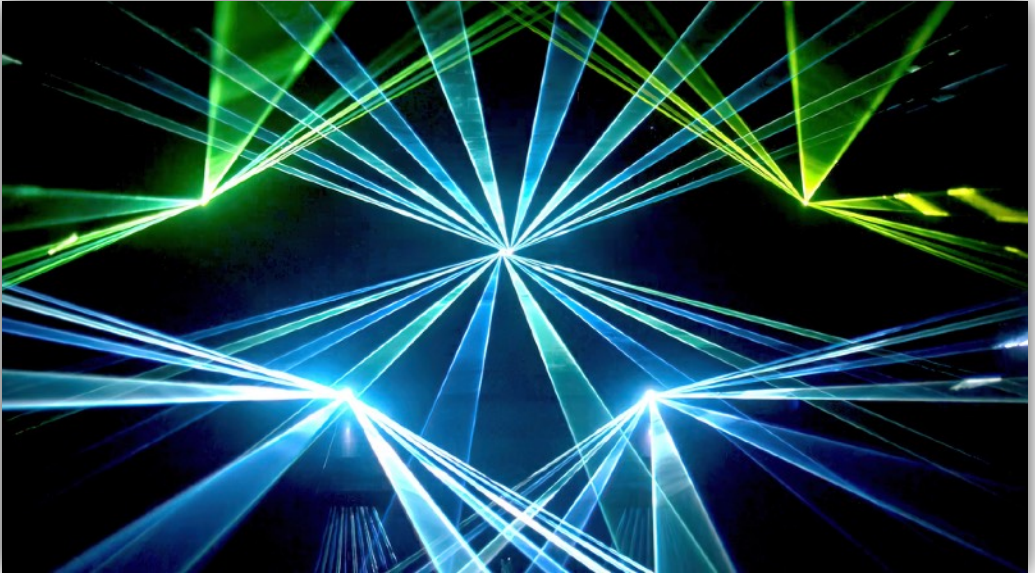
## Beams/Atmospherics Show for Multiple-Scanner Projectors



# 3

Third Place

**Royal Play**  
LOBO



**Credits:** Show Design: Roman Schütz

**Music:** Ramin Djawadi (KSHMR & The Golden Army Remix), "Game of Thrones Main Title"

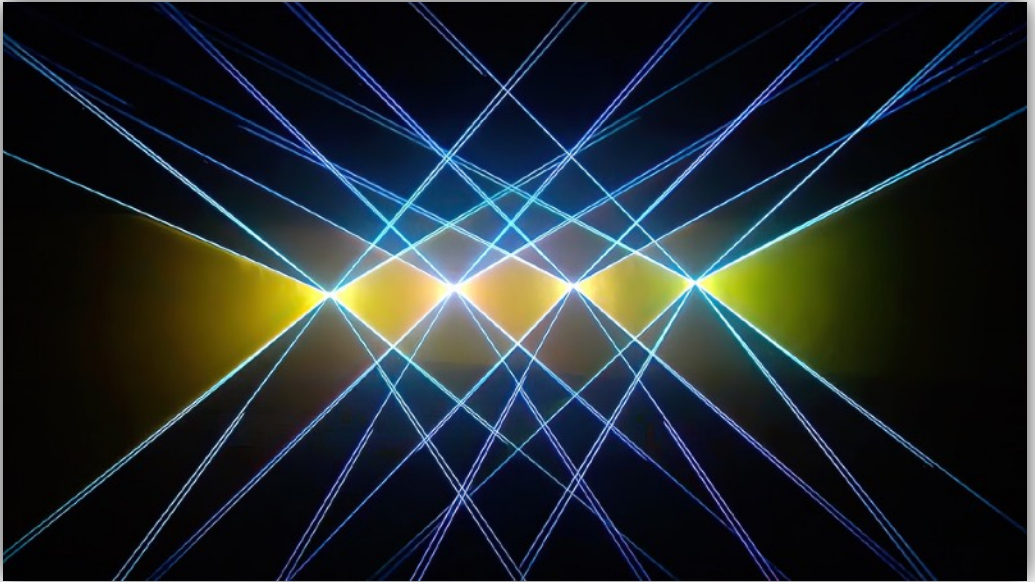
The idea of creating an imposing laser show to go along with this epic theme had been on the designer's mind for a long time. In order to do the fantasy epic justice, they made use of several projectors, conducting them like the orchestral instruments that bestow the majestic character upon the track of this "Royal Play". The motions of the lasers offer deep immersion, enhanced by delicate beam compositions and tender motions, which then transition into sweeping beats that are meticulously timed as well as mesmerizing shapes that appear to blossom right in front of the audience's eyes.

# 2

Second Place

## Another Level

William Loftus



**Credits:** *Laser Production and Design: William Loftus*

**Music:** *Griz and Subtronics, "Griztronics II (Another Level)"*

This was the first laser show I've made to feature wide laser zones strictly made for the camera's perspective. Even though I design laser shows as a career, this show was made with the intent of letting people know that lasers are something I'm deeply passionate about (as the song repeats "I just do this for fun")



# 1

**First Place** - Beams/Atmospherics Show  
for Multiple-Scanner Projectors

**Crank**  
Theo Petrides



**Credits:** Theo Petrides, all original work.

**Music:** Kill the Noise, "Crank"

*Crank* is a laser show that explores choreography of a dynamic electronic and orchestral music. Each element in the show is meticulously thought out to help make the show come alive.





# 3

Third Place

**Abha**  
KVANT Ltd.



**Credits:** *Programmer & Installation Designer: Martin Gabco*

**Music:** *Abdul Rahman Al-Khateeb & Ibrahim Khafaji, "National Anthem of Saudi Arabia"*

Permanent installation of three laser units that do a projection over a mountain almost 1km distant. The idea behind this project is display Saint and King's messages to support local tourism. Laser projection was supported with moving heads installed over mountain via wireless network sync with laser projection.

# 2

**Second Place** - Permanent Installation

**Sci-fi & VR Park**  
KVANT Ltd.



**Credits:** *Idea Makers: Jiri Proucil and Pavol Kubosek; Programmer: Martin Gabco*

**Music:** *Jakub Pietras, "Onwards" (background music)*

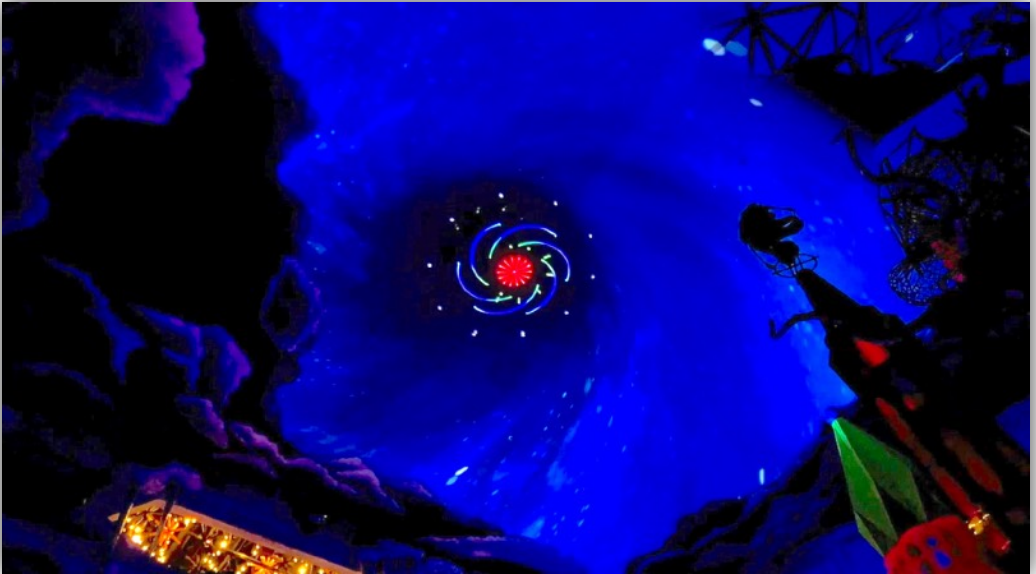
The park has total of 22 rooms, of which eight rooms have a laser installation. Each room has its standard control and is designed with a single START button for easy operation of personnel. The laser powers used are from 1.8W to 3W, some with a 50mW custom design. In interactive installations where people come into contact with single laser beams, the measurement was made, and the thickness of the beam was increased so that the MPE was not exceeded. Rooms that do not have fixed barrier between people and lasers have, in addition to e-stop, an automatic e-stop installed (barrier detection sensor).

# 1

**First Place** - Permanent Installation

## **Eemian Laser Orrery**

Christopher Short



**Credits:** *Laser Programming: Christopher Short; Game Engine Programming and Systems Integration: Danny Bazo; Video projection: Chris Baron; Audio: Ben Wright; Creative Director: Matt King*

**Music:** *Ben Wright, "Wormhole"*

This is a commissioned permanent installation. It's a laser-projected orrery manipulated by guests sitting in giant robot mechs. It's a cooperative experience where guests try to solve puzzles and open the wormhole. Laser projection is accompanied by video mapping and other lighting effects.



# 3

Third Place

**Biela noc 2021 Force Fields**  
KVANT Ltd.



**Credits:** Mapping Designer: Vlado Stefanek; Show Operator: Jakub Dibdiak;  
Music Producer: Stroon  
**Music:** Stroon, "Astatine"

Art and abstract building mapping was projected on the surface of the Presidency palace during the White Night 2021 art event in Bratislava, Slovakia.

# 2

Second Place

## 2021 Louisville Ballet's Swan Lake Lapis Laser Display, Ilc



**Credits:** Designer/Show Operator: Garrett Crabtree; Designer: Ryan Daly  
**Music:** Pyotr Ilyich Tchaikovsky, "Swan Lake Op. 20"

Swan Lake is a ballet composed by Russian Pyotr Ilyich Tchaikovsky in 1875. This classic tale tells the story of Odette, a princess turned into a swan by a curse from evil sorcerer Rothbart. Over 145 years later, this classic tale of reality and fantasy is reimagined as futuristic landscape composed of 24 laser projectors. In traditional presentations of Swan Lake, Rothbart is played by an on-stage actor. For our design, we imagined Rothbart as green laser light, and identified the moments in the composition where the evil Rothbart appears, the green laser becoming a character in itself.

# 1

**First Place** - Fine Art Laser Display

**Biela noc 2021 Dialogue**  
KVANT Ltd.



**Credits:** *Designer, Programmer and Laser Operator: Martin Gabco; Music Producer: Stroon*

**Music:** *Stroon, "Would You"*

One of the largest installations during the Biela noc 2021 art event in Bratislava. Laser projection represents a night talk of those two iconic buildings. For laser mapping were used 30W lasers which were installed on the roofs of sides buildings. The Slovak radio broadcasting building and the National Bank of Slovakia with its height of 111 meters. The buildings were empty overnight.





# 3

Third Place

### Butterfly in Flower Forest LaserLight Magic



**Credit:** Laser Artist and Photographer: Manick Sorcar

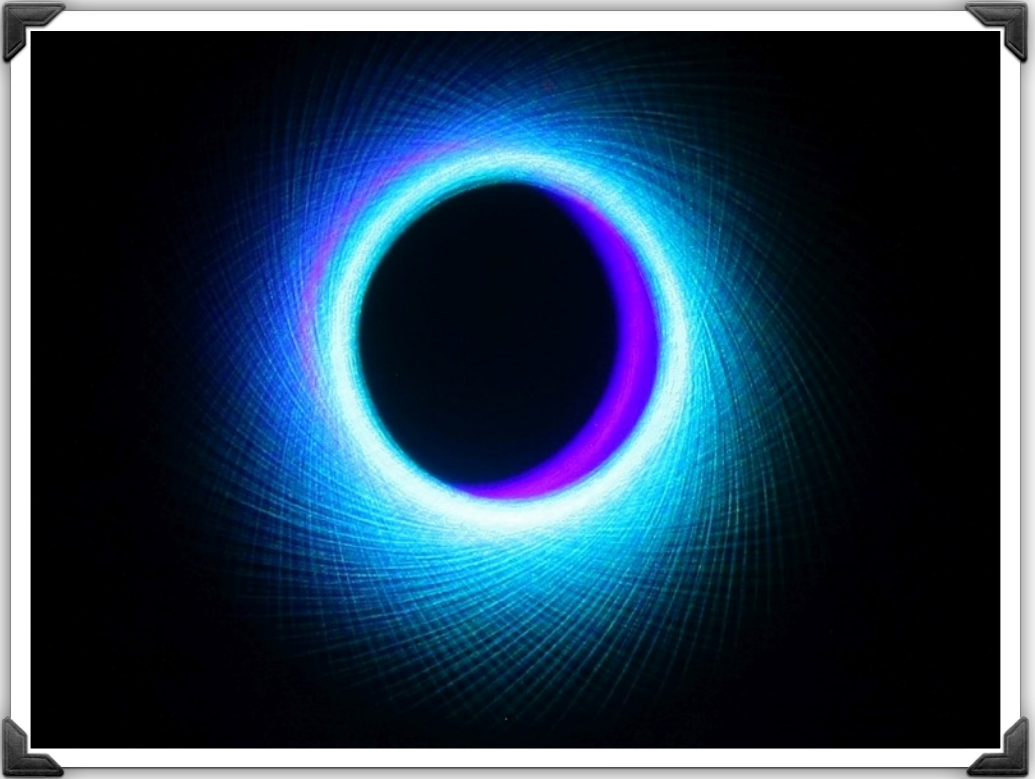
I enjoy painting folk art with traditional colors, which gives me a soul-satisfaction. But to create that form of art with laser — using the 21st Century high-tech for painting brush, vibrant colors, and lumia effect — is a different kind of challenge and thrill where art meets with science in unity. “Butterfly in Flower Forest” actually goes a step beyond that. It is an experimental art created predominantly with laser, mixed with lumia and fluorescent papers under UV. For photography, a DSLR camera was used, captured in a single click. No digital post enhancement was done.

# 2

Second Place - Laser Photography

## Black Hole Eclipse

LOBO



**Credit:** *Photographer: Florian Skrzypczak*

Out of a deep, black void, fine laser brush lines spiral and fray out into the darkness; the last glimpse of an otherworldly purple sun peeks out as it is swallowed by the seemingly impossible "Black Hole Eclipse," straight out of the science-fiction genre. The merging of laser techniques demonstrates a thrilling perspective trick that draws the viewer in – much like the outer-space phenomenon that inspired this image.

# 1

**First Place -**  
Laser Photography

## **Tesla Coil** LOBO

**Credit:**  
*Photographer:*  
Florian  
Skrzypczak

Danger, danger!  
High voltage! This  
strange device  
appears to have  
been taken right  
out of an  
eccentric  
scientist's  
research facility,  
but it is, in fact,  
an elaborate laser  
projection. These  
red and white  
laser beams  
create a stunning  
three-dimensional  
effect that  
culminates in the  
wispy sparks of  
the "Tesla Coil"  
colliding in the  
center. A truly  
electrifying piece  
of laser art!



## “Laser Jockey” Performance



The Laser Jockey competition was held 4 November 2022 during the ILDA Conference. Attendees viewed the competitors’ live performances, then voted for their favorites. The top three vote-getters received First, Second and Third Place in this category.

Third Place

**Lyra Letourneau**  
*Pangolin Laser Systems*

Second Place

**Alex Oita**  
*ER Productions*

First Place

**Derek Garbos**  
*LaserTech Canada*



Third Place

# 3

## **Rorschach And Awe: Achieving Lumia Bilaterally Using Custom Optics and Servomotors** Illuminatus Lasers



Rorschach And Awe is a custom-built laser lumia projector that projects butterfly- and other-shaped lumia patterns wherein the imagery is bilaterally symmetrical. It is a refinement of the Meta-Kinetic Bilateral Photonotron which was shown at SELEM 2021 and at the Zoom session of the 2021 ILDA Cloud Conference. It involves a lumia projector with custom optics: beam splitter, prism, and front-surface mirror. By adding a servomotor for the lumia disk and buttons for munge control, the possibilities for interactive expression are greatly increased.

# 2

**Second Place** - Fenning Technical Achievement Award

**KVANT Spectrum 2022**

KVANT Ltd.



Spectrum projectors offer world-class performance, superb beam quality, a wide range of colours, inspiring features and comprehensive control options for easy integration into existing systems. There are three versions - 30 Watt ROGB, 33 Watt RYGB, and 45 Watt RYGB with either Orange or Yellow OPSL. Due to breakthroughs in beam-shaping techniques, all these models are seriously bright! In addition, the rigid foam aluminum chassis with cushioned heatsink, advanced thermal management and ergonomics makes working with Spectrums stressless, exciting and fun.



# 1

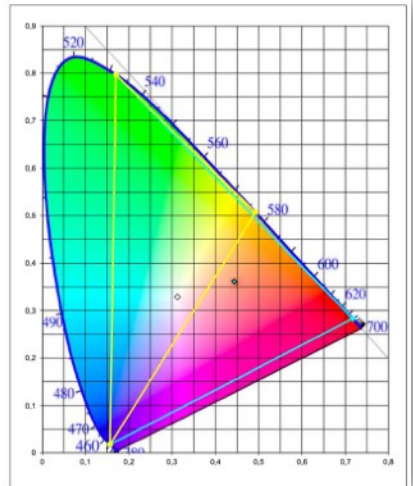
**First Place** - Fenning Technical Achievement Award

## RGB to RGBX Algorithm LaserAnimation SOLLINGER

| Calculated Values |       |          |          |         |
|-------------------|-------|----------|----------|---------|
| Color             | DAC   | RYGB     | RGB      | RYG/RGB |
| red               | 1,000 | 8000,00  | 8000,00  | 1,00    |
| green             | 0,195 | 1563,03  | 2610,41  | 0,60    |
| blue              | 0,322 | 2577,41  | 1130,20  | 2,28    |
| yellow            | 1,000 | 6000,00  |          |         |
| Power             |       | 12140,43 | 11740,60 | 1,03    |
| rel. Brightness   |       | 8400,07  | 3882,30  | 2,16    |
| Lumen             |       | 8737,25  | 2651,61  | 3,18    |

| Projector Configuration |               |          |
|-------------------------|---------------|----------|
| Color                   | Wavelength nm | Power mW |
| red                     | 638           | 8000,00  |
| green                   | 532           | 8000,00  |
| blue                    | 450           | 6000,00  |
| yellow                  | 577           | 6000,00  |
| Power                   |               | 30000,00 |
| rel. Brightness         |               | 16023,16 |
| Lumen                   |               | 10943,82 |

| Input Values |           |
|--------------|-----------|
| RGB          | Intensity |
| red          | 1,00      |
| green        | 0,30      |
| blue         | 0,30      |



A well-known problem in the standardisation of laser displays is the handling of more laser color sources than just RGB. These additional colours needed to be set and adjusted in the software for the creation of the content. To achieve a direct communication between RGB content information, and output devices with more than RGB laser color sources, the calculation and processing of the color information is done dynamically in the projector. The algorithm calculates correct control values for RGB + additional colors (for example Yellow) from given RGB or CIE XYZ values only.



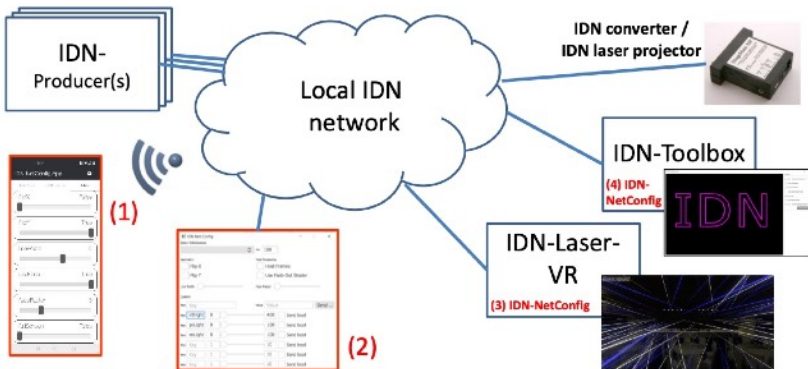
**First Place**

**1**

**IDN-NetConfig**

University of Bonn - Institute of Computer Science 4 (Laser & Light Lab)

**IDN-NetConfig – extension of IDN-Hello Protocol**



- (1) Android App
- (2) Qt GUI, portable (Win, Linux, MacOS)

To control application specific parameters, independent of IDN-specific parameters (3,4)



Matthias Frank – Laser & Light Lab  
Institute of Computer Science 4 – Security and Networked Systems

The IDN-Hello protocol is the basic protocol for exchange of information between IDN enabled devices. It also includes procedures for IDN device and service discovery as well as exchange of laser specific parameters. The IDN-NetConfig is an extension to IDN-Hello to allow for a configuration of application-specific parameters via the local network.



## ILDA Career Achievement Award 2022 Recipient



### Casey Stack

Casey Stack saw his first laser show in 1977, at a Star Wars concert in Portland. The finale, where Spectra-Physics 171 argon-ion lasers scanned spirals onto rotating mirrored balls, changed his future.

At the age of 14 he started a company to build laser light show projectors. He was technical director at Laser Fantasy from 1986 to 1992, and a founding partner of Lightspeed Design Group, which won 40% of all ILDA artistic awards in their first year of business. At Laser Physics Inc. he developed a portable air-cooled mixed-gas laser (in the 1990s, well before diodes). Since 1998 he has been president of Laser Compliance, which assists manufacturers in laser product safety and regulatory compliance.



Through his career in laser display, Stack has supported ILDA, created innovative laser art and technology, and helped with standards and regulations. Some of his achievements are listed below.

**ILDA-related activities:** Co-developed and introduced what is now the ILDA Test Pattern. Served as chair of the ILDA Technical Committee from 1992 to 1996. Created and produced the ILDA Advanced Technology Workshop for several years. Served a term on the ILDA Board of Directors, 1996-1998.

**Noteworthy laser displays:** Producer and head engineer for the world's largest projected images (nearly a mile wide) on Grand Coulee Dam; a variation of this show still runs over 100 nights per year, 32 years later. Helped create a real-life rotating Pink Floyd "Dark Side of the Moon" laser prism that flies over the audience's heads, for the 2006-2007 Roger Waters tour. Worked on "Laser Enhanced Multi-Media" 3D laser shows. Performed over 600 laser shows, in the days before automated computer playback.

**New laser display markets:** Assisted global manufacturers of Laser Illuminated video projectors to overcome regulatory barriers. LIPs projectors are now found globally in homes, business, cinemas, and concert tours. Similarly, helped with regulatory approval of Laser Illuminated Lighting Instruments with Clay Paky's Xtylos projectors.

**New laser display technologies:** Pioneered the use of the Alesis ADAT for standardized playback of laser shows. Also developed and/or assisted in the development of auto digitizing, analog geometric correction, an audience scanning safety meter, and ceramic tubes for entertainment ion lasers (replacing fragile glass tubes).

**Laser safety, regulatory and standards:** Developed early audience scanning variances and taught the first audience scanning training classes. Vice chair of the ANSI Z136.10 committee, where he was the primary author of the "Safe Use of Lasers in Entertainment, Displays and Exhibitions" standard (in draft as of 2022). Original author of IEC 60825-1, part 4.4 which allows laser-derived lighting sources to be safely used without excessive laser-like regulation. Initiated creation of the Laser Illuminated Projector Association, for video-type laser projectors. Helped develop guidance for FAA to more easily allow laser illuminated projectors in airspace, through SAE Aerospace Recommended Practice ARP5560.

## ILDA Career Achievement Award Recipients

|                                    |                        |                         |                        |
|------------------------------------|------------------------|-------------------------|------------------------|
| 1989                               | 2004                   | 2011                    | 2017                   |
| Ivan Dryer                         | Patrick Murphy         | Stephen Heminover       | Alex Hennig            |
| 1990                               | 2005                   | 2012                    | 2018                   |
| Seiji Inatsugu                     | Michael Roberts        | Tom Harman              | Glenn Thomas           |
| 1991                               | 2006                   | 2013                    | 2019                   |
| Floyd Rollefstad                   | Doug McCullough        | Pavol Kubošek           | Alberto Kellner-Ongaro |
| 1992                               | 2007                   | 2014                    | 2020                   |
| Jennifer Morris                    | William R. Benner, Jr. | Tim Walsh               | Christine Jenkin       |
| 1993                               | 2009                   | 2015                    | 2021                   |
| Robert Mueller                     | Greg Makhov            | Dirk Baur               | Fred Fenning           |
| <i>(not awarded<br/>1994-2003)</i> | 2010                   | 2016                    | 2022                   |
|                                    | Lothar Bopp            | Dr. Alexander Timofeyev | Casey Stack            |

Thank you to Ryan Hagan, Marc Webber and everyone  
at our 2022 ILDA Conference host



*Multi-ILDA and International Award Winning Laser Shows and Products*

And thank you to ER and Pangolin for sponsoring the  
Welcome Dinner and Entertainment



**PANGOLIN LASER SYSTEMS**



### **From the ILDA Bylaws**

**The purpose of ILDA is to advance and promote the professional application of laser display**

By maintaining standards of safety performance;

By promoting a better understanding between laser display professionals and regulatory agencies;

By fostering the development of new technology;

By promoting the advancement of laser artistry;

By increasing public awareness;

By providing information to the public; and

By promoting cooperation within the industry.