

This film production was entirely created through the kindness, generosity and creativity of people motivated by curiosity. It features the talents of first-time artists and established artists alike. A majority of the contributions and collaborations may be undetectable, but this film could not have been made without them.

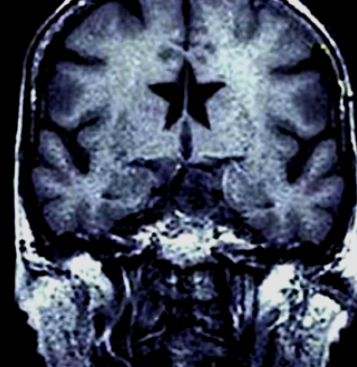
The completion of this film marks the end of the collaborative known as
CAPTAIN AHAB'S MOTORCYCLE CLUB

DEEP ASTRONOMY AND THE ROMANTIC SCIENCES

CAST

Rudy	RUDY DEJESUS
Voice of Grace	MEREDITH ADELAIDE
Body of Grace	MICHI MUZYKA
Cory McAbee	CORY MCABEE
Anton Baxter	CRAIG ANTON
Handsome Sebastian	SEBASTIAN GALASSO
Marshall Witherton	MATT ROPER
Student	CASEY EDWARDS
Waitress	MEREDITH ADELAIDE
MC	JAMES HABACKER
Future Driver	JOSH WINEGARNER
Bereaved	ALEXANDRA TAVARES
Mike	CHRIS DAVIS
Daryle Conners	DARYLE CONNERS
Ethan Collins	ETHAN COLLINS
Light Donor Ad Narrator	GIN HAMMOND

Written and Directed by	CORY MCABEE
Produced by	DARYLE CONNERS RICHARD COLE STEVE HOLMGREN CORY MCABEE
Director of Photography	BILL SCHWEIKERT
Editor	RICHARD COLE
Co-Produced by	FRANNY ALFANO
Associate Producer	JAMES HABACKER
Executive Producer	CORY MCABEE
Sound Editor	ERICA HUANG
Supervising Sound Editor	DAN DZULA
Re-Recording Mixer	DAN DZULA
Score Mixer	KARL DERFLER MIXED AT THE SHACK
Colorists	NATHAN T. RYAN BILL SCHWEIKERT JASON JONES
First Assistant Director	LEON CHASE
Script Supervisor	RICHARD COLE
Casting	CORY MCABEE
2nd Assistant Camera	BAMBI INGRAM
Gaffer	CHASE TINNON
Key Grip	CHASE TINNON
Location Sound Mixer	CHASE TINNON
Boom Operators	DYLAN BRIAN SYDOR PAUL BENINCASA BLAINE DUNKLEY
Prosthetics Makeup	ROBIN FROHARDT
Key Make-Up Artist & Hair Stylist	MEREDITH ADELAIDE
Stunt Coordinator	PAUL CLIFFORD MOLNAR



ANIMATION

Multi-Dimensional Spores

Animated by Cory McAbee
Sound Design by Cory McAbee
Mixed by Karl Derfler

Elephant Ad

Animated by Scott Bateman
Voice Over by Peter Barto
Sound Design by Cory McAbee
Mixed by Karl Derfler

Light Donor Logo

Animated by Henning M. Lederer
Sound Design by Cory McAbee
Mixed by Karl Derfler

4th Dimensional Birds

Animated by Cory McAbee
Sound Design by Cory McAbee
Mixed by Karl Derfler

Small Talk Double Action Radio Bumper

Animated by Cory McAbee
Music and Sound Design by Cory McAbee
Mixed by Karl Derfler

Face Punch

Animated by Cory McAbee
Sound Design by Cory McAbee
Mixed by Karl Derfler

Mars Ad

Animated by Cory McAbee
Voice Over by Cory McAbee and Peter Barto
Music and Sound Design by Cory McAbee
Mixed by Karl Derfler

Emotional Mathematics Ad #1

Animated by Henning M. Lederer
Voice Over by Suzi Berlin
Sound Design by Cory McAbee
Mixed by Karl Derfler

Emotional Mathematics Ad #2

Animated by Henning M. Lederer
Voice Over by Suzi Berlin
Sound Design by Cory McAbee
Mixed by Karl Derfler

BlinQtime Ad

Animated by Forest Gamble
Additional Animation Components by Joe Gamble
Voice Over by Richard Cole
Music and Sound Design by Cory McAbee
Mixed by Karl Derfler

Earth Reimbursement Center Promo

Animated by Cory McAbee
Voice Over by Cory McAbee, Amy McAbee, and Peter Barto
Music and Sound Design by Cory McAbee
Mixed by Karl Derfler

ART DEPARTMENT

Illustrations, Drawings, and Graphics	CORY MCABEE
Lincoln Burial Instructions and Elephant Seal	MAX GRÜTER
Small Star Seminar Mermaid logo	JOHN BORRUSO
BlinQtime logo, Fact Checker logo, Norman logo, and Academy of Romantic Science logo	MARTIN SCOTT

PROP CONSTRUCTION

Small Star Seminar Mermaid Flag	ETHAN COLLINS
Beer Bottles, Books, Bags, and Badges	RICHARD COLE CORY MCABEE
Light and Wire Sculptures	SAM WALLACE
Norman Posters and Quilts	SIERRA FURTWANGLER



SECONDARY LOCATION CINEMATOGRAPHERS

Richard Cole	- NY
Daryle Conners	- WA
Heron Furtwangler	- NY
Forest Gamble	- NC
John Goddard	- NY
Liz Keim	- CA
Scott Miller	- NY
Michi Muzyka	- NY
Margaret Saint-Germain	- NY

2ND UNIT

Seattle WA - Norman

Second Unit Director	WEBSTER CROWELL
Director of Photography	WEBSTER CROWELL

Lancaster PA - Norman

Second Unit Director	MAX PHILLIPS
Unit Production Manager	CHRIS SILANSKY
Director of Photography	WYATT DYKE

Seattle WA - Light Donor Ad

Second Unit Director	DARYLE CONNERS
Unit Production Manager	WES HURLEY
Director of Photography	VINCENT PIERCE
Additional Photography	TRISTAN FAIRCHOK
Costumes	RONALD LEAMON

Savannah GA - Golden Thumb Lecture

Second Unit Director	CRAIG ANTON
Director of Photography	AARON BOYD
Sound Mixer	AARON BOYD
Production Design	DELPHINE ANTON LESLEY ANTON
ADR Recording	CANDACE MORTIER



MUSICAL MONTAGES & CONCERTS

Editor	CORY MCABEE
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LIVE PERFORMANCE CINEMATOGRAPHERS

Aaron Boyd - New York NY	Joe Hay - Adelaide AUS
Adam Shumaker - Atlanta GA	Jónatli Guðjónsson - Reykjavik ISL
Andrei Severny - Marfa TX	Joseph Wachowski - New York NY
Andri Fannar Kjartansson - Reykjavik ISL	Josh Winegarner - Portland OR
Andri Már Bjarnarson - Reykjavik ISL	Justin Roman - Philadelphia PA
Anne Lukeman - Champaign-Urbana IL	Kat Audick - Portland OR
Antifrostvision - Bern SUI	Kimberly Gottschalk - Portland OR
Anton Makarov - Copenhagen DEN	Kylie Renee Clark - Iowa City IA
Artur Mishkorudny - St Petersburg RUS	Leonardo Arellano - Boulder CO
Björgvin Sigurðarson - Reykjavik ISL	Lorin Ferguson - Denver CO
Bob Sweeney - Philadelphia PA	Lydia Watson-Lewis - Philadelphia PA
Brandi Leder - Iowa City IA	Makennah Bristow - Asheville NC
Caleb Hutcheson - Asheville NC	Marc Dickerson - Philadelphia PA
Cherie Mayman - San Francisco CA	Marcus Lenz - Berlin GER
Chris Lukeman - Champaign-Urbana IL	Mark Brecke - Somalia
Chris Sibley - Marfa TX	Martin Scott - Phoenix AZ
Christoph Schuch - Frankfurt GER	Matthew Brown - San Francisco CA
Clark Spendelow - Adelaide AUS	Matthew Osmon - Flint MI
Daryle Connors - Austin TX, Dallas TX, Marfa TX, San Francisco CA, Park City UT	Melanie Masson - Seattle, WA
David L. Cooper - San Francisco CA	Michael Faulkner - Baltimore MD
David Hopkinson - Bristol GBR	Monttré - Portland OR
David Van Keuren - New York NY	Nesib Shamah - Seattle, WA
Dixie Dellamorto - Lancaster PA	Niall Coursey - Seattle, WA
Elisabeth Wedding - San Francisco, CA	Pablo Kjolseth - Fort Collins CO, Boulder CO, Denver CO
Eric Peterson - Phoenix AZ	Patrick Kappeler - Bern SUI
Forest Gamble - Asheville NC	Paul Sanders - Lancaster PA
Fredrick Kolouch - Los Angeles CA, San Francisco CA	Richard Cole - New York NY, Portland ME
Greth Ligon - Fort Collins CO	Rob Ellis - Bristol GBR
Hallur Örn Árnason - Reykjavik ISL	Scott Miller - New York NY
Hañalina Lucero-Colin - Los Angeles CA	Sean Whiteman - Portland OR
Heron Furtwangler - New York NY	Shannon Neale - Portland OR
Ismael Tijerina - El Paso TX	Skizz Cyzyk - Baltimore MD
Jan Doense - Amsterdam NED	Tamara R. Mitchell - Boulder CO, Denver CO
Jeff Gonzalez - Portland ME	Tim Meyers - Champaign-Urbana IL
Jeff Griecci - Portland ME	Vita Spieß - Frankfurt GER
Jenny Wierschem - Baltimore MD	Vlad Amelin - St Petersburg RUS
Jessica Lamotte - Minneapolis, MN	Will Tyler Spurgin - Marfa TX
Joanna Michalska - Wrocław POL	Zach Harp - Champaign-Urbana IL
Joe Gamble - Asheville NC	Zach Passero - El Paso TX

Live Board Recording	SKÚLI HELGI SIGURGÍSLASON - Reykjavik ISL JOSH TUCCI - Los Angeles CA
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Featured Translations	ARTURO PONS - MEX CEZARY STUDNIAK - POL MARCUS LENZ - GER SELENA VALYAVKINA - RUS YELENA MAKARCZYK - RUS, GER
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Opening Credit Design	CORY MCABEE
Tail Credit Design	MICHI MUZYKA
Production and Post Accounting	RICHARD COLE
Web Host & Designer	MAGGIE MCFEE
Legal Support	STEVE HOLMGREN BARB HALL
Editing Facility	THE NONAGON - Jersey City NJ
Colorist Studios	DOVER FIELD PRODUCTIONS SCREEN DOOR PICTURES THRASH STUDIOS
Filmed & Recorded	THE SLIPPER ROOM - New York NY
NYC Norman Filmed	KNIGHTS OF COLUMBUS HALL - Brooklyn NY

ADDITIONAL CAST

Bar Patrons	AMY CHACE CINDY CHUNG ETIENNE CIPRIANI VERONICA BIATRISE FURMAN JOHN GODDARD AYANNA PEREZ ZULEIKA RODRIGUEZ ALICIA RUTH
Funeral Participants	KARLA MEURSING MELANIE MASSON WES HURLEY ELENA BRIDGES KIM VOYNAR NATHANIEL LUKE PINZON DEAN ERICKSON AMY BILLHARZ SHARON LINDER
Students	KYNDALL HIGH OLIVIA HAMILTON SAMANTHA DEARDEN
BlinQtime Lecture	MATTHEW FURNIVAL WILL HEYDT-MINOR NIKI JACKSON TIMOTHY PARKER SARA GRACE JUDGE KYRA ROGERS CRUGIE RICCIO LUKE NORBY ALLISON LICHTER ROB LICHTER TYLER WEST MICHAEL ZIMMERMAN JORGE OYOLA DR. KAREN FROUD
Normaners	KEITH ANDREWS ANNA BELL PAUL BENINCASA SHAYLEEN BOWLING AMY CHACE LEON CHASE ETHAN COLLINS ELIZABETH COOK CLIFFORD DANIELS MARISA FIGUEROA BRIAN P. FINNANGER HERON FURTWANGLER SIERRA FURTWANGLER MICAHA GAUGH LILI JACKSON JOEL KENWORTHY GRANT KINDT CATHERINE ROSE LEON RANDY LUDWIG MIKE MCCRACKEN ETHAN ROBB ALEX ROMERO MARGARET SAINT-GERMAIN MEG TAYLOR TYSON LYNN EMILY WERNET HOLLY ANDREW ALEXANDER BANNON ANNA ROSE BROWN AHLEIGHIA CARTER-CROOM SEAN DEFFLEY MICHAEL GARLAND HOPE HAAR GRACE L. HENDERSON MAX PHILLIPS BRANDON RIEHL CHRISTYN RIEHL KATHERINE RODRIGUEZ JOSÉ GUILLERMO RODRIGUEZ PLAZA PHILIP ROONEY CHRIS SILANSKY SARAH STAMM HAROLD TORRES KAT TURNER CHRISTOPHER UNDERHILL JOANNA UNDERHILL FRANKLIN ZIEGLER



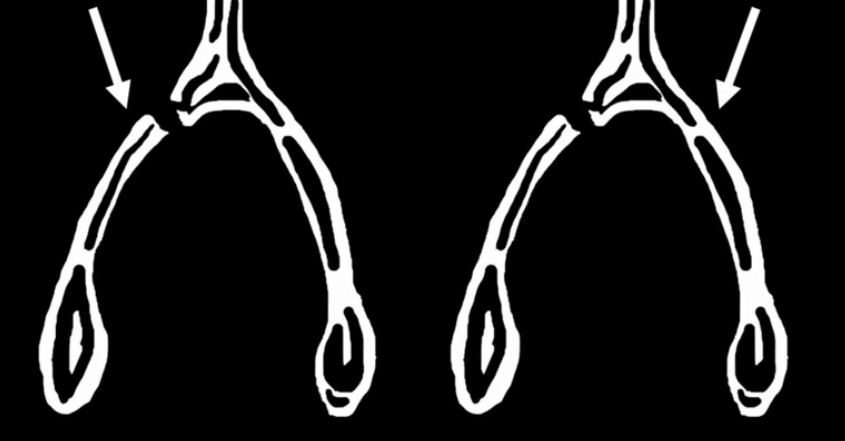
LIVE EVENTS FILMED ON LOCATION

Adelaide AUS	MERCURY CINEMA
Amsterdam NED	PARADISO SHOW
Asheville NC	UNIVERSITY OF NORTH CAROLINA ASHEVILLE
Atlanta GA	THE EARL
Austin TX	ALAMO DRAFTHOUSE VILLAGE
Baltimore MD	THE IDEAL
Bern SUI	REITSCHULE KINO KOLLEKTIV
Berlin GER	GRIESSMUEHLE
Boulder CO	MUENZINGER AUDITORIUM - BOULDER UNIVERSITY
Bristol GBR	THE CUBE
Brooklyn NY	GRAND VICTORY
Champaign-Urbana IL	THE ACCORD
Chicago IL	CO-PROSPERITY SPHERE
Cleveland OH	NEGATIVE SPACE
Copenhagen DEN	HUSET'S BIOGRAF
Dallas TX	TEXAS THEATER
Duluth MN	THE RED HERRING LOUNGE
El Paso TX	MESA MUSIC HALL
Flint MI	FLINT LOCAL 432
Fort Collins CO	DOWNTOWN ARTERY
Frankfurt GER	SEHRSTERN - FILMPRODUCTION
Interlochen MI	INTERLOCHEN CENTER FOR THE ARTS
Iowa City IA	PUBLIC SPACE ONE
Lancaster PA	MODERN ART
Lancaster PA	FRANKLIN & MARSHAL COLLEGE

Littleton CO	ALAMO DRAFTHOUSE
Los Angeles CA	DOWNTOWN INDEPENDENT THEATER
Marfa TX	CROWLEY THEATER
Marfa TX	MARFA FESTIVAL DRIVE-IN
Memphis TN	MALCO STUDIO ON THE SQUARE
Minneapolis MN	BRYANT LAKE BOWL
Minneapolis MN	ST. ANTHONY MAIN THEATER
New York NY	HOWARD GILMAN THEATER - LINCOLN CENTER
New York NY	THE SLIPPER ROOM
Park City UT	PARK AVENUE THEATER
Philadelphia PA	PHILAMOCA
Phoenix AZ	THE TRUNK SPACE
Portland ME	APHADION THEATER
Portland OR	KELLY'S OLYMPIAN
Reykjavik ISL	TJARNARBÍO THEATER
Saint Petersburg RUS	KATERINA PARKHOMENKO
Saint Petersburg RUS	КАФЕ-БАР ПРОДУКТЫ
Saint Petersburg RUS	ТАҢЦПЛОЩАДКА
San Francisco CA	EXPLORATORIUM
San Francisco CA	HOTEL UTAH
San Francisco CA	VICTORIA THEATER
Seattle WA	COLUMBIA CITY THEATER
Wroclaw POL	WROCLAWSKI TEATR WSPÓLczesny

LIVE EVENTS HOSTED FOR DOCUMENTATION

- 36TH STAGE AND SONG REVIEW - Wroclaw POL
- AFTER DARK FESTIVAL / SF EXPLORATORIUM – San Francisco CA
- MARFA FILM FESTIVAL – Marfa TX
- MINNEAPOLIS / ST. PAUL INTERNATIONAL FILM FESTIVAL – Minneapolis MN
- NEW YORK FILM FESTIVAL - New York NY
- REYKJAVIK INTERNATIONAL FILM FESTIVAL – Reykjavik ISL
- SÈANCE MAGAZINE FESTIVAL – Saint Petersburg RUS
- SUNDANCE FILM FESTIVAL – Park City UT
- UNKNOWN PLEASURE FESTIVAL – Berlin GER
- SAN FRANCISCO INTERNATIONAL FILM FESTIVAL (SFFILM) - San Francisco CA



MUSIC

Rudy and Grace

Written, performed, and recorded by Cory McAbee
 Vocals by Cory McAbee and Amy McAbee
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 © Published by Cory McAbee BMI

Piggy's Got The Conch

Written, performed, and recorded by Cory McAbee
 Vocals by Cory McAbee
 © Copyright Cory McAbee 2019
 © Published by Cory McAbee BMI

You

Written, performed, and recorded by Cory McAbee
 Vocals by Cory McAbee, Willa Vy McAbee, and Richard Cole
 Mixed by Karl Derfler at The Shack
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 © Published by Cory McAbee BMI

Thunder

Written, performed, and recorded by Cory McAbee
 Backing vocals by Willa Vy McAbee
 Mixed by Karl Derfler at The Shack
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Butterfly

Written, performed, and recorded by Cory McAbee
 Mixed by Karl Derfler at The Shack
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Small Star Corporation

Written, performed, and recorded by Cory McAbee
 Backing vocals by Willa Vy McAbee
 Mixed by Karl Derfler at The Shack
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 © Published by Cory McAbee BMI

Easier - Instrumental

Written, performed, and recorded by Cory McAbee
 Mixed by Karl Derfler at The Shack
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 © Published by Cory McAbee BMI

Norman

Written and recorded by Cory McAbee
 Vocals by Willa Vy McAbee
 Mixed by Dan Dzula
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 © Published by Cory McAbee BMI

I Was Once Like You - Instrumental

Written, performed, and recorded by Cory McAbee
 Mixed by Karl Derfler at The Shack
 © Copyright Cory McAbee 2015
 © Published by Cory McAbee BMI

Good Enough - Instrumental

Written, performed, and recorded by Cory McAbee
 Mixed by Karl Derfler at The Shack
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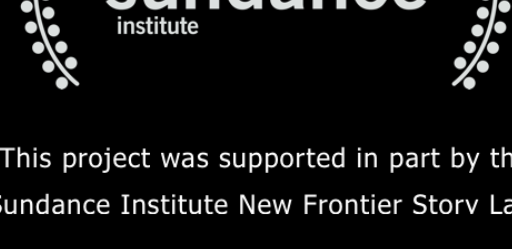


SPECIAL THANKS

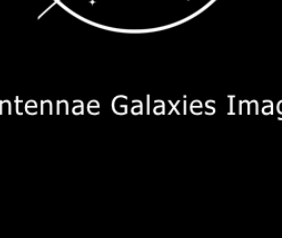
12 House	Hannah Larson Jenson	Moro Rogers
Aapo Ilves	Hannes Bruehwiler	Mr. Lobo
Abner B. Ortiz	Hans Tammen	Muris Solaris
Alaina Janack	Indigo Blue	Nancy McAbee
Alin Blake	Jack Stevenson	Natalie Difford
Amelia Ross-Gilson	Jared Konopitski	Nuncio Casanova
Amélie Garin-Davet	Jasmin Neophytou	Olga Viso
Amit Itzcar	Jeff Frumess	Olivia Hamilton
Amy Browne	Jeff Taylor	Pater Sparrow
Amy Chace	Jen Talbert	Patrick Corrigan
András Borbíró	Jennifer Bechtel	Patrick Havican
Andrew Grant	Jennifer Proctor	Patrick Singer
Andy Schuler	Jeremy Moss	Paul Hanson
Ann Seletos	Jeremy Ramsier	Paul Molnar
Anna Niklasson	Jeremy Williams	Perry Whitfield
Atousa Bendeh	Jessica York	Peter Gibbons
Avi Zev Weider	Jim Brunzell	Prakash Verma
Beata Świtek	Jimmy Jones	Pronoblem Baalberith
Benjamin Busch	Joanna Davis	Rachel LeBlanc
Bianca Hisse	Joe Sehee	Rae Surface
Bill Rankine	John Adams	Ray McKeeby
Billy Bob's BBQ	John Engelbrecht	Ray McKeeby
Björgvin Sigurðarson	John Hall	Dr. Raymond Chai
Brandi Bigley	John McAbee	Rad Randy
Caleb Scott	John Modern	Raymond Ruiz
Cameron Gainer	Jon Tittle	Remi Ramsier
Camillelvís	Jonas Kim Jakobsen	Remy Rambles
Carmen Camilleri Peters and son Gerald	Jonathan Arthur Ashley	Reuben Smart
Caroline Stefek	Jonny Rhumbaba	Rev K
Carolyn Blake	Joshua James	Reverend RayGun Sharpadero
Cat Igrun	Jura Dormidoshin	Richard Pelster-Wiebe
Catherine Gathu	Justin David Stone	Richie David Marrufo
Charlotte J. Vogel	Dr. Karen Froud	Robert McAbee
Chris Larson	Kate Braksphear	Rob Lichter
Chris Martin	Katerina Parkhomenko	Robin Lambaria
Chrysta Bell Zucht	Kathleen Maguire	Ronnie Chin
Colin McDonald	Keely Isaac Meehan	Rowan Laubsch
Courtney Sheehan	Kelly Murphy Stevens	Ruqing Pan
Crugie Riccio	Kristin Rheome	Ryan Bayne
Damon Hare	Kristin Van Loon	Ryan Higgins
Dan Fransee	Kyndall High	Ryan Thomas
Dan Handleman	Laska Jimsen	Ryan Watt
Dan Menke	Laura Ferguson	Sam Grabowska
Dan Vaughan	Lee Anderson	Samuel McAbee
Daniel Crogier	Lee Vilensky	Sasha Ahmadshina
Darin Ingalls	Lena Hill	Saskia Delores
Dave Rogant	Libby Modern	Schiani Ledo
David Pontbriand	Lilli Ramsier	Scott Beibin
David Woods	Lisa Izvozhikova	Scott Bookman
Dennis Kipridis	Lloyd DeBonis	Sean McNeal
Derek Kamal	Logan Bay	Sean Samuel Kelly
Donovan Entrekín	Loren Scott	Seth Fein
Dunvael Photography	Luc Londe	Shane McNeil
Ellaichía Kimaro	Lucien Shapiro	Silke Tudor
Elizabeth Hay	Luke Bahr	Simone Martins
Emelie O'Hare	Maggie McFee	SJ Chiro
Emily Jo Testa	Marc J. Palm	Sound Unseen
Eneli Rohlta	Marc Kenison	Steve Bolland
Eric Bresler	Margarita Mwai	Steve Salvi
Eric Jambor	Marisha Matthews	Steve Wilderbeast
Eric Padget	Mark Penman	Svein Welde
Fedor Bykov	Marla Erickson	The Sweatshop (Brooklyn)
Felix Lindén	Mathew Cowan	That 1 Guy
Fernando Huerta	Matt Stuckey	Third Rail Quarterly
Frances Libellula	Matt Wadley	Todd Merrill
FrazEr Dempsey	Maz Weston	Tom Pascale
Freddi Price	Melika Bass	Tristan Brady-Jacobs
Gabe Petrie	Melissa Evans	Truth Socket
Garry Brady	Melissa Sanders	Tula Lotay
Geoffrey S. Tuttle	Micah Gurard-Levin	Valdim Xoxriakov
Gerald Hooper	Michael Gibbiser	Val Hochberg
Glen Jones	Michael Mittelstaedt	William Hausler
God God Dammit Dammit	Michele Leclairre Entrekín	Xavier Keeling
Grant Kindt	Mike Gibisser	Yitzhak Rattlesnatch
Gregory Bayne	Mike Silverman	Юра Дормидовшин
Gunnar Theodór Eggertsson	Mila Shidlowskaya	김인구
Hallfríður Þóra Tryggvadóttir	Mojo Juju	
Hallgrímur Jónas	Momoko Kohgi	

and to everyone who supported the first Small Star Seminar concert tour on Kickstarter and to our Smallest Star family on Patreon

We remember Lorin Ferguson and Nathaniel Luke Pinzon...



This project was supported in part by the Sundance Institute New Frontier Story Lab.



Antennae Galaxies Image courtesy of NASA/ESA Hubble Space Telescope



Deep Astronomy and the Romantic Sciences

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