

# EMPAC

CURTIS R. PRIEM EXPERIMENTAL MEDIA  
AND PERFORMING ARTS CENTER



EMPAC + ircam + CCRMA

SEMINAR / JULY 9-13

 Rensselaer

RENSELAER POLYTECHNIC INSTITUTE

# SCHEDULE

## MONDAY / 09 JULY

9:00	<b>LOBBY</b>	CHECK IN AT BOX OFFICE 7TH FLOOR EMPAC
9:45-12:00	<b>ST1</b>	INTRODUCTION TO SPATIAL AUDIO 1: <i>MARKUS NOISTERNIG</i>
12:00-1:00	<b>MEZZ</b>	LUNCH ON MEZZANINE
1:00-2:45	<b>ST1</b>	EMPAC WFS DEMO : <i>EMPAC STAFF + MARKUS NOISTERNIG</i>
3:00-4:00	<b>ST1</b>	OBJECT BASED AUDIO : <i>MARKUS NOISTERNIG AND RAMA GOTTFRIED</i>
4:00-5:00	<b>ST1</b>	SOUNDING BOARD (TIME FOR QUESTIONS AND DISCUSSION)
7:00		DINNER/DRINKS @ THE SHOP *COST NOT INCLUDED

## TUESDAY / 10 JULY

9:00-12:00	<b>ST1</b>	CHRIS CHAFE: SURROUND SOUND'S POINT OF ORIGIN
12:00-1:00	<b>MEZZ</b>	LUNCH ON MEZZANINE
1:00-2:30	<b>ST1</b>	INTRODUCTION TO SPATIAL AUDIO 2 <i>MARKUS NOISTERNIG</i>
		COFFEE BREAK
3:00-4:30	<b>ST1</b>	PATCHING SPAT (PART 1) : <i>RAMA GOTTFRIED</i>
4:30-5:30	<b>ST1</b>	SOUNDING BOARD (TIME FOR QUESTIONS AND DISCUSSION)

## TUESDAY / 10 JULY (CONTINUED)

7:00	<b>CH</b>	<b>PRESENTATION</b> (PROGRAMMED BY MARKUS NOISTERNIG) Natasha Barrett's " <i>Topology Chamber</i> " <i>Fluoresce</i> ; Okkyung Lee & Rama Gottfried Olga Neuwirth, Tàl Rosner " <i>Disenchanted Island</i> " <i>Improvisations</i> ; Okkyung Lee & Markus Noisternig
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## WEDNESDAY / 11 JULY

9:00-10:15	<b>ST1</b>	FUTURE PERFECT : <i>GARTH PAINE</i>
		COFFEE BREAK
10:45-12:00	<b>ST1</b>	HIGH DENSITY WFS : <i>MARKUS NOISTERNIG AND ARGEO ASCANI</i>
12:00-1:00	<b>MEZZ</b>	LUNCH ON MEZZANINE
1:00-2:00	<b>ST1</b>	OVERHEAD WFS : <i>BOBBY MCELVER</i>
2:00-3:30	<b>ST1</b>	CONVERSATION (Q&A AND MORE) WITH COFFEE IN STUDIO 1
3:30-5:00	<b>ST1</b>	PATCHING SPAT (PART 2) OR EMPAC AUDIO TOUR

## THURSDAY / 12 JULY

9:00-10:30 **ST1** 3D AUDIO RECORDING / 3D MIXING/  
POSTPRODUCTION (PANORAMIX) :  
*MARKUS NOISTERNIG*

COFFEE BREAK

11:00-12:00 **ST1** LIVE-ELECTRONICS AND SPATIAL AUDIO :  
*MARKUS NOISTERNIG*

12:00-1:00 **MEZZ** LUNCH ON MEZZANINE

1:00-2:30 **CH** EIGENMIKE TALK : *JENS MEYER*

3:00-3:30 **CH** LISTENING SESSION

3:45-5:30 **ST1** PATCHING SPAT (PART 3)  
OR EMPAC AUDIO TOUR

## FRIDAY / 13 JULY

9:00-10:30 **CH** INTRODUCTION TO BINAURAL LISTENING :  
*MARKUS NOISTERNIG*

COFFEE BREAK

11:00-12:30 **ST1** THE STATE OF THE ART OF BINAURAL  
AUDIO: FUNDAMENTAL CONCEPTS AND  
RECENT TOOLS : *EDGAR CHOUËIRI*

12:30-1:30 **MEZZ** LUNCH ON MEZZANINE

2:00-3:30 **ST1** ROUNDTABLE ROUND-UP

## PRESENTER BIOGRAPHIES



**MARKUS NOISTERNIG** is Researcher at IRCAM, CNRS, Sorbonne Universities-UPMC in Paris, Senior Lecturer at the Institute of Electronic Music in Graz, and also lecturer at the Karlsruhe College of Arts and Design. As an undergraduate and postgraduate, he studied electrical engineering and audio engineering as well as computer music composition at the University of Technology and the University of Music and Performing Arts in Graz. As an artist, Noisternig has participated in numerous collaborative projects with well-known composers and ensembles of New Music, which have performed in key European festivals.



**CHRIS CHAFE** is a composer, improviser, and cellist, developing much of his music alongside computer-based research. He is Director of Stanford University's Center for Computer Research in Music and Acoustics (CCRMA). At IRCAM (Paris) and The Banff Centre (Alberta), he pursued methods for digital synthesis, music performance and real-time internet collaboration.



**RAMA GOTTFRIED** is a lecturer of computer music and instrument design at UC Berkeley's Center for New Music and Audio Technologies (CNMAT), where he completed his PhD in music composition in 2015. In 2012, he was a composer in residence at IRCAM working on aesthetic applications of Wave Field Synthesis (WFS) and Higher Order Ambisonics (HOA). This year he is continuing his spatial composition research as a composer in residence at IRCAM and Zentrum für Kunst und Medientechnologie (ZKM).



**BOBBY MCELVER** is a sound designer and composer for theater and dance in New York City. He was a company member of The Wooster Group from 2011-2016. Current associate with Andrew Schneider. Co-creator of Andrew Schneider's *YOUARENOWHERE* and EMPAC-commissioned *AFTER*, which featured EMPAC's Wave Field Synthesis arrays at EMPAC and The Public Theater.



**EDGAR CHOEIRI** is professor of Applied Physics at Princeton University where he is Director of two research laboratories: The Electric Propulsion and Plasma Dynamics Propulsion Laboratory (where he works on advanced propulsion for deep space spacecraft), and the 3D Audio and Applied Acoustics (3D3A) where he works on spatial audio. He is the author of more than 200 scientific articles and publications and the recipient of numerous awards.



**JENS MEYER** received his master and PhD from Darmstadt University of Technology, followed by a PostDoc at Bell Labs. In 2002 he co-founded mh acoustics. Together with Gary Elko he developed the Eigenmike (R) microphone array. First sold in 2003 the Eigenmike array was the first microphone capable of recording Higher Order Ambisonics (HOA). To this day his main technical interest is in acoustic signal processing with emphasis on array beamforming technologies. He is the author of numerous publications and patents.



**GARTH PAINE** Garth Paine is a composer, performer and scholar. He has created interactive responsive environments where the inhabitant generates the sonic landscape through their presence and behavior and composed many music scores for dance works, generated through real-time video tracking and bio-sensing. He was awarded a Green Room Award for Outstanding Creativity, for *Escape Velocity* (Company in Space) and was a finalist for the Best new Musical Score for Dance, 2014. His work has been shown across the globe. Recent performances in Australia, USA, Korea and Europe have presented works for percussion and live electronic processing, new techniques for sound spatialization, resonating metal instruments, motion tracked dance and Tibetan singing bowl robots. The breadth of his practice is expressed through an enquiry into sound as material. In 2018, Garth is researcher-artist in residence at IRCAM and ZKM, developing a new performance work for spatial audio and VR.



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NATASHA BARRETT  
*Momentary Invisible Beings*

OKKYUNG LEE + RAMA GOTTFRIED  
*Fluoresce*

OLGA NEUWIRTH, TAL ROSNER  
*Disenchanted Island*

OKKYUNG LEE + MARKUS NOISTERNIG  
*Improvisation*

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**TUESDAY JULY 10 / 7:00 PM**

EMPAC's Spatial Audio Seminar is a gathering of composers and programmers discussing technologies such as Wave Field Synthesis and High-Order Ambisonics. Taking place over five-days, this intensive seminar covers the technical, theoretical, and practical issues surrounding spatial audio platforms. A collaboration with IRCAM and Stanford University's CCRMA, the program gives participants experience hearing hundreds of channels of audio, including EMPAC's new 500+ speaker wave field array.

During the performance tonight, the audience will hear a selection of works for multichannel audio ranging from "simple" playback pieces to live improvisation with an acoustic instrument. Noted cellist Okkyung Lee will be improvising with and existing within the Concert Hall's Ambisonic dome, which will be manipulated by IRCAM's Markus Noisternig.



## FLUORESCENCE

Ambisonics—which uses the 64 speakers hanging throughout the room—is a technique for spatializing sound in 360 degrees, around and above you. What makes this different from cinema 5.1 or 7.1 is that, in an Ambisonic system, all the speakers are working simultaneously to create sound, regardless of its position. Consequently, the impact of a perfect listening position, or sweet spot, is greatly reduced.

These High-Density Loudspeaker Arrays, as they are known to the professional community, are increasingly becoming topics of interest and discussion for computer musicians. Institutes like IRCAM (the Paris-based Institut de Recherche et Coordination Acoustique/Musique) and CCRMA (the Center for Computer Research in Music and Acoustics), have been instrumental in creating a generation of composers and researchers who are using these tools to realize new methods of experiencing sound in previously unimaginable ways.

### MOMENTARY INVISIBLE BEINGS

'Momentary Invisible Beings' is the concert composition offspring of the 3D audio and video creation Pockets of Space (3D video created by Open Ended Group, commissioned by IRCAM). In 'Momentary Invisible Beings', 3D Soundfield recordings, which were originally recognizable, were decomposed into micro moments of space, time and frequency. This extensive abstraction allows greater focus on any specific aspect of a normally integrated and complex sound. In the composition, points and lines coalesce into tangled networks that continually reshape themselves across a series of rapidly shifting scenes. Musical organisms scamper into noise and then invert into purer tones, before coalescing to reconfigure a space where invisible objects display identity through their gait. Finally, at the end of the work, we hear a postcard of the original sound source. 'Momentary Invisible Beings' is composed in 7<sup>th</sup> order 3D ambisonics.

*Fluoresce*, meaning 'the act of becoming fluorescent', is an exploration into the composition of dynamic spatio-timbral objects, and their expressive use as motivic materials. Just as complex timbre, when understood spatially, can be described in terms of focal plane — fore, mid, and background layers — the gestalt of complex spatial organization can be understood as timbre. Tracing sound, physical gesture, and spatial process to their irreducible components, there forms a relational network which functions across medium. Through this tracing, the relationships between component sub-processes are empirically exposed, forming connections between the articulation of acoustic and electronic sound, instrumental gesture, and their combined spatial organization.

The title *Fluoresce* relates to this process of transferral between medium, and the exposure of hidden forms — acoustic sounds becoming synthetic and spatially dynamic, like the spatial shift that occurs as our eyes adjust to a black lit room. Originally composed for hybrid Wave Field Synthesis and Higher Order Ambisonics, the piece exposes different parts of itself in new spaces and configurations. Depending on speaker placement and nuance of the bow, the piece's flocking particles, synthetic extensions and bending spherical harmonics disperse and compress into new forms and perspectives — continuously reconfiguring itself in space.

### DISENCHANTED ISLAND

Olga Neuwirth's journey takes the audience to Venice, its laguna, and the church of San Lorenzo. Luigi Nono's major work *Prometeo* was premiered in 1984 in this church, for which Renzo Piano designed an inner shell in form of a huge wooden arc.

With the help of IRCAM, Neuwirth captured the acoustics of this forever closed church. She preserves the outstanding acoustics and the musical features of this cultural heritage in the form of 3-D directional room impulse responses.

The audience is sitting in the middle of a dome of surrounding loudspeakers. Combining novel 3-D audio rendering technologies with the recorded directional room impulse responses of the church enable

Neuwirth to create different soundscapes and to compose the sonic space. Unlike Nono and Piano, the composer creates a virtual sonic space in the real sonic space of the performance venue, adapting the acoustics in real-time as it would another instrument.

Neuwirth plays with the ambiguity of the real and the virtual sonic space. She also uses 3-D field recordings taken in Venice and its lagoon to connect the inside of the church with the surroundings in a constant transformation of musical elements and spaces; the sounds of motor boats, sea gulls, waves, steps, voices or different bells permeate the porous and broken walls of the historic church to let in the unknown like a liquid architecture. Neuwirth combines the field recordings with complex electronic sounds and synthetic voices, and creates an unheard, outstanding and magical exploration of space and sound.

Over the duration of 15 minutes, the audience goes on a fictional journey through space and time and experiences a labyrinth of real and fictitious rooms outside and inside, as well as acoustical phenomena and their processing. The listener is continuously seduced by the sheer richness and beauty of the textures and grateful for the great clarity of the structure.

During a short interactive part, the composer invites the audience to speak into a microphone, and puts them into the virtual acoustics of the church.

The work has been commissioned by IRCAM and the Centre Georges Pompidou.

## BIOGRAPHIES

**MARKUS NOISTERNIG** is Researcher at IRCAM, CNRS, Sorbonne Universities–UPMC in Paris, Senior Lecturer at the Institute of Electronic Music in Graz, and also lecturer at the Karlsruhe College of Arts and Design. As an undergraduate and postgraduate, he studied electrical engineering and audio engineering as well as computer music composition at the University of Technology and the University of Music and Performing Arts in Graz. As an artist, Noisternig has participated in numerous collaborative projects with well-known composers and ensembles of New Music, which have performed in key European festivals

**OKKYUNG LEE** is a cellist, composer, and improviser who moves freely between of artistic disciplines and contingencies. Since moving to New York in 2000 she has worked in disparate contexts as a solo artist and collaborator with creators in a wide range of disciplines. A native of South Korea, Lee has taken a broad array of inspirations—including noise, improvisation, jazz, western classical, and the traditional and popular music of her homeland—and used them to forge a highly distinctive approach. Her curiosity and a determined sense of exploration guide the work she has made in disparate contexts.

She has appeared on more than 30 albums, including a diverse variety of recordings as a leader, whether the acclaimed solo improvisation effort Ghil, produced by Norwegian sound artist Lasse Marhaug for Ideologic Organ/Editions Mego, or composition-driven collections like Noisy Love Songs (for George Dyer), released by Tzadik in 2011. In 2018 she releases Cheol-Kkot-Sae (Steel Flower Bird), an ambitious piece drawing upon free improvisation and traditional Korean music that was commissioned for the 2016 Donaueschingen Festival by SWR2, where she collaborated with western improvisers Marhaug, John Butcher, Ches Smith, and John Edwards along with Pansori vocalist Song-Hee Kwon and traditional percussionist Jae-Hyo Chang. She also leads a intricately nuanced quartet featuring harpist Maeve Gilchrist, pianist Jacob Sacks, and bassist Eivind Opsvik that explores the lyrical side of her writing.

Lee is perhaps known best for her improvisational work, where she draws upon visceral extended techniques, in both solo and collaborative contexts. Not content with static performance approaches, Lee routinely

explores the spaces she performs in, responding to atmosphere, audience, or objects surrounding her, to produce an immersive experience. Recently her collaborative performance of Alexander Calder's Small Sphere and Heavy Sphere—part of the Whitney Museum's Calder: Hypermobility exhibition—featured interactions with repurposed objects activated by artist Christian Marclay.

Over the last two decades Lee has collaborated with Laurie Anderson, Arca, David Behrman, Chris Corsano, Mark Fell, Douglas Gordon, Jenny Hval, Vijay Iyer, Ikue Mori, Bill Orcutt, Jim O'Rourke, Marina Rosenfeld, and John Zorn among others. In recent years she's performed in equally varied contexts, whether embarking on an extended tour with the legendary experimental rock band Swans or collaborating with visual artist Haroon Mizra.

As a curator Lee has programmed concert series at the Stone in New York, the Music Unlimited Festival in Wels, Austria, and at the Jazz House (recently renamed Alice) in Copenhagen, Denmark. In 2015 she was selected as a Doris Duke Performing Artist in 2015, and she has been awarded residencies at Civitella Ranieri in Umbria, Italy in 2015 and Akademie Schloss Solitude in Stuttgart, Germany in 2017. She has been commissioned to compose music and assemble projects for Amsterdam's Maze Ensemble, Borealis Festival in Bergen, Norway, Nam June Paik Art Center, Korea and Pub Crawl I & II for the London Sinfonietta as part of a Christian Marclay exhibition at White Cube Gallery.

She received a dual bachelor's degree in Contemporary Writing & Production and Film Scoring from Berklee College of Music in 1998 and a master's degree in Contemporary Improvisation from New England Conservatory of Music in 2000.

**RAMA GOTTFRIED** is a lecturer of computer music and instrument design at UC Berkeley's Center for New Music and Audio Technologies (CNMAT), where he completed his PhD in music composition in 2015. In 2012, he was a composer in residence at IRCAM working on aesthetic applications of Wave Field Synthesis (WFS) and Higher Order Ambisonics (HOA). This year he is continuing his spatial composition research as a composer in residence at IRCAM and Zentrum für Kunst und Medien-technologie (ZKM).

**NATASHA BARRETT** (Norway/UK) composes acousmatic and electro-acoustic concert composition, sound installations and interactive art. She has also created theatre music, large-scale outdoor media productions, worked with dance and film, and sound environments for exhibitions. She regularly collaborates with musicians and visual artists, as well as architects and scientists. She is highly active as a freelance composer, and also in the mediation of cutting edge compositional technologies with a strong focus on spatial audio and its contemporary musical context. Her work is commissioned, performed and broadcast throughout the world by festivals, organisations and individuals, and includes a regular schedule of portrait concerts and programs featuring her work. Beside commissions for specific works, throughout her career she has received grants and artist's residence invitations, and a solid list of awards and prizes, including the Nordic Council Music Prize, (Nordic Countries), Giga-Hertz Award (Germany), Edvard Prize (Norway), Jury and public first prizes in Noroit-Leonce Petitot (France), Five prizes and the Euphonie D'Or in the Bourges International Electroacoustic Music Awards (France), prizes at Musica Nova (Prague), CIMESP (Brazil), Concours Scime, (France), International Electroacoustic Competition Ciberart (Italy), two prizes in Concours Luigi Russolo (Italy), two prizes in the International Rostrum for electroacoustic music, and prizes in two Ars Electronica competitions (1998 and 2017).

**OLGA NEUWIRTH** (b. 1968) gained international recognition at the age of 22 for two mini-operas based on works of Nobel Prize winner Elfriede Jelinek. Since then, she's written several music theatre pieces including her first [full-length?] dramatic work, Båhlamms Fest (also based on one of Jelinek's works), The Outcast, American Lulu, and Hommage á Klaus Nomi. In 2015, Vienna Philharmonic premiered her orchestral work Masaot / Clocks without Hands, which then went on to be performed at Carnegie Hall in 2016 under the baton of Valerij Gergiev. Also in 2016, she was composer-in-residence at the Lucerne Festival. She is currently working on a new opera for the Vienna Staatsoper which will be premiered in 2019.





## BEYOND EMPAC

A GUIDE TO ALL THINGS TROY

### OUTDOOR EVENTS

#### TROY NIGHT OUT

*Monthly Arts & Culture Event*  
*Last Friday of Every Month*  
*5pm to 9pm*  
[downtowntroy.org](http://downtowntroy.org)

#### ROCKIN' ON THE RIVER

*Summer Concert Series*  
*Wednesdays June – August*  
[downtowntroy.org](http://downtowntroy.org)

#### TROY WATERFRONT

##### FARMERS MARKET

*Every Saturday | 9am to 2pm*  
*Summer Location: River Street*  
*between 1st & 3rd Streets*  
*Winter Location: Uncle Sam*  
*Atrium, Fulton at 3rd & 4th*  
*Street*  
[troymarket.org](http://troymarket.org)

### ARTS & CULTURE

**THE ARTS CENTER OF THE  
CAPITAL REGION**  
*265 River Street*  
*Mon to Thur | 9am to 7:30pm*  
*Friday | 9am to 4pm*  
*Saturday | 9am to 5pm*  
*Sunday | 12pm to 4pm*

**TROY SAVINGS BANK MUSIC  
HALL**  
*30 2nd Street*

**TROY DANCE FACTORY**  
*291 River Street*

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### LOCAL PARKS & RECREATION

**RIVER FRONT PARK**

**PROSPECT PARK**

**FREAR PARK**

**PEEBLES ISLAND STATE PARK**

## EXERCISE

**RPI MUELLER CENTER**  
15th Street Between  
Sage Ave. & Bouton Rd  
518.276.2874

**HEARTSPACE YOGA  
& HEALING ARTS**  
10 2nd Street | 518.512.3390

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## SHOPPING

**MARKET BLOCK BOOKS**  
290 River Street | 518.328.0045  
Monday to Friday | 10am to 9pm  
Saturday | 10am to 6pm  
Sunday | 12pm to 5pm

**T&J SOAP**  
271 River Street | 518.272.2660  
Tuesday to Friday | 11am to 6pm

**TROY CLOTH & PAPER**  
291 River Street | 518.687.1010  
Tuesday to Friday | 10am to 6pm  
Saturday | 9:00am to 5pm

**ANCHOR NO. 5**  
288 River Street | 518.272.7227  
Tuesday to Friday | 11am to 6pm  
Saturday | 9:00am to 5:00pm

**THE ANTIQUE WAREHOUSE**  
78 4th Street | 518.441.3950  
Tues to Sun | 11am to 4:30pm

**RIVER STREET BEAT SHOP**  
197 River Street  
Wed to Fri | 11:30am to 5pm  
Saturday | 11am to 4:30pm  
Sunday | 11:30am to 4pm

**FUNCYCLED**  
272 River Street | 518.629.5386  
Thursday & Friday | 12pm to 6pm  
Saturday 9:30am to 3:30pm

**RIVER GARDEN STUDIO**  
282 River St | 518.279.7470  
Tuesday to Friday | 11am to 6pm  
Saturday | 9am to 5pm  
Sunday | 11am to 3pm

**RIVER ROCKS BEAD SHOP**  
209 River Street | 518.273.4532  
Tuesday to Friday | 11am to 6pm  
Sat | 11 to 5 Sun | 12 to 5

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**PHARMACEUTICAL**  
**RITEAID PHARMACY**  
272 Hoosick Street

**CVS PHARMACY**  
49 4th Street

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## URGENT CARE

**ALBANY MED EMURGENTCARE**  
730 Hoosick Street  
Brunswick, NY 12180  
518.264.9000  
7 days | 9am to 9pm

**SOUTH TROY HEALTH  
AND ONCALL**  
Hudson Valley Plaza  
79 Vandenburg Avenue  
518.271.0062  
Monday to Friday | 9am to 8pm  
Saturday & Sunday | 9am to 5pm

**ST. MARY'S HOSPITAL**  
1300 Massachusetts Avenue  
518.268.5000

**SAMARITAN HOSPITAL**  
2215 Burdett Avenue  
518.271.3300

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**TRANSPORTATION**  
**CDTA**  
For Local Bus Routes &  
Schedules visit [cdta.org](http://cdta.org)

**ALBANY-RENSSELAER  
AMTRAK STATION**  
525 East Street,  
Rensselaer, NY 12144

**ALBANY GREYHOUND**  
Bus Station  
34 Hamilton Street, Albany, NY

## SHIPPING & HANDLING

**UNITED STATES POST OFFICE**  
400 Broadway | 518.272.7300

**UPS**  
Brunswick Sq, 740 Hoosick Rd  
518.270.0909

**FEDEX**  
590 Broadway, Menands, NY

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**HAIR & BEAUTY**  
**ROSE HAIR & HEALING**  
410 Fulton Street | 518.620.7673

**TROY GROOMING CO.**  
205 River Street | 518.328.6077

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**LOCAL HARDWARE STORE**  
**ACE HARDWARE**  
63 3rd Street | 518.687.0014  
Monday to Saturday | 8am to 6pm  
Sunday | 9am to 3pm

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**TAXI COMPANIES**  
**CAPITALAND TAXI**  
518.270.8294

**BLACK & WHITE CAB**  
518.272.6961

## BANKS

**BANK OF AMERICA**  
59 3rd Street

**CITIZENS BANK**  
1818 5th Ave

**KEY BANK**  
130 4th Street

**PIONEER BANK**  
21 2nd Street

**TRUSTCO BANK**  
1700 5th Ave

**SEFCU**  
Rensselaer Union &  
258 Hoosick Rd.

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## GROCERIES

**PRICE CHOPPER SUPER CENTER**  
716 Hoosick Street

**HANNAFORD SUPERMARKET**  
40 Main Ave, Wynantskill, NY

**UNCLE SAM'S GOOD  
NATURAL PRODUCTS**  
77 4th Street  
Mon – Sat | 9am to 6pm  
Sun | 12pm to 5pm

**TRADER JOE'S**  
79 Wolf Road, Albany, NY 12205

**HONEST WEIGHT FOOD CO-OP**  
100 Wateroliet Ave, Albany, NY

**WHOLE FOODS**  
1425 Central Ave, Albany, NY  
12205

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## FOOD CLOSE BY

**MOE'S SOUTHWEST GRILL**  
1527 15th Street | 518.276.3876  
Mon – Sun | 11am to 11pm

**BIG APPLE PIZZERIA**  
108 14th Street | 518.271.4444  
Sun – Thurs | 10am to 3am  
Fri & Sat | 10am to 4am

**FATHER'S MARKETPLACE /  
STUDENT UNION**  
Lower Level, 15th Street  
Weekdays | 7:30am to 2am  
Weekends | 7:30am to 12am

**THE LIBRARY CAFE**  
Across from EMPAC  
Campus Circle  
Mon – Thurs | 8am to 8pm  
Fri | 8am to 5pm

**MUZA**  
1300 15th Street | 518.271.6892  
Tues – Thurs | 4pm to 9pm  
Fri & Sat 4pm to 10pm

**ALI BABA**  
2243 15th Street | 518.273.1170  
Mon – Sat | 10am to 10pm

**RED & BLUE ASIAN GRILL**  
2312 15th Street | 518.272.8188  
Mon – Thurs | 11am to 10pm  
Fri – Sun | 11am to 10:30pm

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## BREAKFAST / LUNCH / COFFEE

**SPILLIN' THE BEANS**

**COFFEEHOUSE**  
13 3rd Street | 518.268.1028  
Mon – Fri | 7am to 5:30pm  
Sat | 8am to 4pm  
Sun | 8am to 3pm

**DAILY GRIND**  
46 3rd Street | 518.272.8658  
Mon – Fri | 7:30am to 6pm  
Sat | 8am to 5pm  
Sun | 9am to 4pm

**ILLIUM CAFE**  
9 Broadway | 518.273.7700  
Mon & Tues | 8am to 5pm  
Wed | 8am to 6pm  
Thurs | 8am to 9pm  
Fri & Sat | 8am to 10pm

**WHISTLING KETTLE**  
254 Broadway | 518.874.1938  
Mon – Thurs | 11am to 6pm  
Fri | 11am to 8pm  
Sat | 10am to 6pm  
Sun | 11am to 6pm

**BROADWAY CAFE**  
357 Broadway | 518.273.2233  
Mon – Fri | 8am to 3:30pm

**PLACID BAKER**  
250 Broadway | 518.326.2657  
Tues – Fri | 9am to 3pm  
Sat | 9am to 2pm

**PSYCHADELICATESSEN**  
275 River Street | 518.478.3459  
Mon – Fri | 5am to 10pm  
Sat & Sun | 6am to 9pm

**FAMOUS LUNCH**  
111 Congress Street |  
518.272.9481  
Mon – Sun | 7am to 10pm

**MANORY'S**  
99 Congress Street |  
518.272.2422  
Tues – Sun | 6:30am to 3pm

**SUPERIOR MERCHANDISE  
COMPANY**  
147 4th Street  
Mon – Fri | 7am to 8pm  
Sat & Sun | 8am to 8pm

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## DINNER / DRINKS

**TARA KITCHEN**  
172 River Street | 518.328.6281  
Wed – Sun | 11:30am to 2pm &  
5pm to 8pm

**SLIDIN' DIRTY**  
9 1st Street | 518.326.8492  
Mon & Tues | 11am to 11pm  
Wed & Thurs | 11am to 12am  
Fri & Sat | 11am to 2am  
Sun | 11am to 10pm

**THE ALE HOUSE**

680 River Street | 518.272.9740  
 Mon, Tues, Fri | 11:30am to 12am  
 Wed, Thurs, & Sat | 11:30am-1am  
 Sun | 12pm to 1am

**FOOTSY MAGOO'S**

17 1st Street | 518.720.8115  
 Mon - Thurs | 4pm to 2am  
 Fri & Sat | 12pm to 2am

**FRANKLIN ALLEY SOCIAL CLUB**

50 Franklin Street |  
 518.326.1972  
 Wed & Thurs | 5pm to 12am  
 Fri & Sat | 5pm to 2am

**PECK'S ARCADE**

217 Broadway | 518.326.3450  
 Wed & Thurs | 5pm to 10pm  
 Fri & Sat | 5pm to 11pm

**K-PLATE KOREAN BBQ**

75 4th Street | 518.720.7514  
 Mon - Sat | 11:30am to 9pm

**DEFAZIO'S PIZZERIA**

266 4th Street | 518.271.1111  
 Mon - Fri | 11am to 10pm  
 Sat | 12pm to 10pm

**RARE FORM BREWING COMPANY**

90 Congress Street |  
 518.326.4303  
 Wed & Thurs | 4pm to 10pm  
 Fri | 4pm to 11pm  
 Sat | 1pm to 11pm  
 Sun | 1pm to 6pm

**BEIRUT RESTAURANT**

184 River Street | 518.270.9404  
 Tues - Sat | 11am to 8pm

**BOOTLEGGERS ON BROADWAY**

200 Broadway | 518.874.4475

**TROY KITCHEN**

77 Congress Street |  
 518.268.0068  
 Mon - Thurs | 12pm to 10pm  
 Fri & Sat | 12pm to 1am  
 Sun | 12pm to 4pm

**THE SHOP**

135 4th Street | 518.874.1899  
 Mon & Wed | 5pm to 10pm  
 Thurs | 5pm to 11pm  
 Fri | 5pm to 1am  
 Sat | 12pm to 1am  
 Sun | 11am to 3pm; 3:30pm to  
 9:30pm

**WOLFF'S BIERGARTEN**

104 3rd Street | 518.244.5215  
 Mon - Thurs | 11am to 1am  
 Fri | 11am to 2am  
 Sat & Sun | 9pm to 2am

**BROWN'S BREWING COMPANY**

417 River Street | 518.273.2337  
 Mon - Thurs | 11:30am to 11pm  
 Fri & Sat | 11:30am to 12am  
 Sun | 11:30am to 10pm

**DINOSAUR BAR-B-QUE**

377 River Street | 518.308.0400  
 Mon - Thurs | 11:30am to 10pm  
 Fri & Sat | 11:30am to 12am  
 Sun | 12pm to 10pm

**MCADDY'S PUB**

452 Broadway | 518.326.0588  
 Mon - Fri | 11:30 am to 2am  
 Sat | 12pm to 2am  
 Sun | 10am to 12am

**LOPORTOS RISTORANTE CAFE**

85 4th Street | 518.273.8546  
 Mon to Fri | 11am to 3pm  
 & 5pm to 10pm  
 Sat | 5pm to 10pm

**RYAN'S WAKE PUBLIC HOUSE**

403 River Street | 518.270.9253  
 Mon - Thurs | 4pm to close  
 Fri | 12pm to close  
 Sat & Sun | 12pm to close

**RIVER STREET PUB**

194 River Street | 518.271.4177  
 Mon - Thurs | 3pm to 2am  
 Fri & Sat | 3pm to 4am  
 Sun 12pm to 12am

**THE RUCK**

104 3rd Street | 518.273.1872  
 Mon - Wed | 4pm to 4am  
 Thurs - Sun | 11am to 4am

**BACCHUS WOOD-FIRED**

33 2nd Street | 518.687.0345  
 Tues to Thurs | 11:30am to 10pm  
 Fri | 11:30am to 12am  
 Sat | 5pm to 12am  
 Sun | 5pm to 9pm

# STAFF

**Geoff Abbas** / Director for Stage Technologies  
**Aimeé R. Albright** / Artist Services Specialist  
**Eric Ameres** / Senior Research Engineer  
**Constanza Armes Cruz** / Curatorial Assistant  
**Argeo Ascani** / Curator, Music  
**Eileen Baumgartner** / Graphic Designer  
**David Bebb** / Senior Network Administrator  
**Peter Bellamy** / Senior Systems Administrator  
**Michael Bello** / Video Engineer  
**Victoria Brooks** / Curator, Time-Based Visual Art  
**Eric Brucker** / Lead Video Engineer  
**Bruce Bryne** / Master Carpenter  
**Michele Cassaro** / Guest Services Coordinator  
**Gordon Clement** / Media Systems Integrator  
**John Cook** / Box Office Manager  
**David DeLaRosa** / Desktop Support Analyst  
**Zhenelle Falk** / Artist Services Administrator  
**Ashley Ferro-Murray** / Associate Curator, Theater & Dance  
**Kimberly Gardner** / Manager, Administrative Operations  
**Johannes Goebel** / Director  
**Ian Hamelin** / Project Manager  
**Ryan Jenkins** / Video Engineer  
**Shannon Johnson** / Design Director  
**Robin Massey** / Senior Business Administrator  
**Daniel Meltzer** / Master Electrician  
**Stephen McLaughlin** / Audio Engineer  
**Sharineka Phillips** / Business Coordinator  
**Josh Potter** / Marketing and Communications Manager  
**Avery Stempel** / Front of House Manager  
**Kim Strosahl** / Production Coordinator  
**Jeffrey Svatek** / Audio Engineer  
**Todd Vos** / Lead Audio Engineer