

**EMPAC**

Classics of electronic music  
immersing the audience

# 36 Loudspeakers for 2 Ears

Varése  
Harvey  
Chowning  
Schottstaedt  
Harrison  
Appelbaum  
Vande Gorne  
Stockhausen

Performed by  
Hans Tutschku

Friday  
Feb. 22  
7:30PM



# 36 A Concert with Spatial Electronic Music Loudspeakers for 2 Ears

This concert inaugurates the 36-channel “Ambisonic” loudspeaker installation in EMPAC’s Studio 1. The program will feature a selection of electronic compositions written specifically to reach listeners from all spatial directions. Electronic music composed for loudspeaker systems built around and above the audience has been pursued for over 60 years; since its inception, EMPAC has been creating listening and production environments for sound to move freely through space beyond the confines of traditional stereo or surround-sound systems.

Hans Tutschku was born in Weimar, Germany, in 1966. Some of his first experiences with electronic music came with the “Ensemble for Intuitive Music Weimar” of which he has been a member since 1982. He studied electronic music composition at the Dresden College of Music and, starting in 1989, participated in several of Karlheinz Stockhausen’s concert cycles to learn the art of sound direction. He continued his studies in sonology and electroacoustic composition at the Royal Conservatoire in the Hague (1991/92), followed by a year’s study at IRCAM in Paris (1994).

Hans Tutschku has taught electroacoustic composition as a guest professor in Weimar (1995/96); electroacoustic composition at IRCAM in Paris (1997–2001); and at the conservatory of Montbéliard (2001–2004). In May 2003 he completed a doctorate (PhD) with Professor Jonty Harrison at the University of Birmingham, and during the spring term of 2003 was the “Edgard Varèse Guest Professor” at the Technical University of Berlin. Since 2004, he is the Fanny P. Mason Professor of Music at Harvard University, where he teaches composition and works as director of the electroacoustic studios.

He regularly teaches international workshops for musicians and non-musicians on aspects of art appreciation, listening, creativity, composition, improvisation, live-electronics and sound spatialization. For his works, Hans Tutschku has received many prestigious international composition prizes.

Presented and performed by  
**HANS TUTSCHKU**

**KARLHEINZ STOCKHAUSEN, *GESANG DER JÜNGLINGE***  
1955/56, 13 minutes

**JOHN CHOWNING, *TURENAS***  
1972, 12 minutes

**JONATHAN HARVEY, *MORTUOS PLANGO, VIVOS VOCO***  
1980, 9 minutes

- INTERMISSION -

**WILLIAM SCHOTTSTAEDT, *COLONY V***  
1983, 9 minutes

**ANNETTE VANDE GORNE, *YAWAR FIESTA—LAMENTO***  
2006, 6 minutes

**MARK APPELBAUM, *PRECOMPOSITION***  
2002, 12 minutes

**EDGAR VARÈSE, *POÈME ÉLECTRONIQUE***  
1958, 8 minutes

**JONTY HARRISON, *FREE FALL***  
2006, 8 minutes

## STAFF

**GEOFF ABBAS** / DIRECTOR FOR STAGE TECHNOLOGIES  
**ERIC AMERES** / SENIOR RESEARCH ENGINEER  
**CONSTANZA ARMES CRUZ** / CURATORIAL ASSISTANT  
**DAVID BEBB** / SENIOR NETWORK ADMINISTRATOR  
**PETER BELLAMY** / SENIOR SYSTEMS ADMINISTRATOR  
**MICK BELLO** / VIDEO ENGINEER  
**VIC BROOKS** / SENIOR 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  
**DOROTHY DAVILA** / ADMINISTRATIVE SPECIALIST  
**DAVID DELAROSA** / DESKTOP SUPPORT ANALYST  
**ZHENELLE FISH** / ARTIST SERVICES ADMINISTRATOR  
**ASHLEY FERRO-MURRAY** / ASSOCIATE CURATOR, THEATER & DANCE  
**KIMBERLY GARDNER** / MANAGER, ADMINISTRATIVE OPERATIONS  
**JOHANNES GOEBEL** / DIRECTOR  
**SARA GRIFFITH** / PRODUCTION TECHNICIAN  
**IAN HAMELIN** / PROJECT MANAGER  
**MICHAEL HANRAHAN** / SENIOR EVENT TECHNICIAN  
**RYAN JENKINS** / VIDEO ENGINEER  
**SHANNON JOHNSON** / WEB MANAGER  
**MICHAEL LAKE** / PRODUCTION TECHNICIAN  
**ROBIN MASSEY** / SENIOR BUSINESS ADMINISTRATOR  
**STEPHEN MCLAUGHLIN** / AUDIO ENGINEER  
**DANIEL MELTZER** / MASTER ELECTRICIAN  
**JOSH POTTER** / MARKETING AND COMMUNICATIONS MANAGER  
**SHARINEKA PHILLIPS** / BUSINESS COORDINATOR  
**AVERY STEMPEL** / FRONT OF HOUSE MANAGER  
**KIM STROSAHL** / PRODUCTION COORDINATOR  
**JEFFREY SVATEK** / AUDIO ENGINEER  
**MICHAEL VALIQUETTE** / INTERIM GRAPHIC DESIGNER  
**TODD VOS** / LEAD AUDIO ENGINEER