



Digital Stone Project

Exhibition at La Fortezza di Montalfonso, Castelnuovo di Garfagnana

Artists, Educators, and Students Carve Marble with Robots in Historic Carrara Region

June 8-July 7, 2013

Gramolazzo, Garfagnana, Tuscany, Italy

The Digital Stone Project and Garfagnana Innovazione are collaborating to bring artists, architects, educators and students from the United States to the historic Garfagnana region of Italy to work with high technology and ancient Tuscan stone. Over the course of a month each participant will produce a sculpture that is carved with a 7-axis robot arm and finished by hand. This unprecedented collaboration between American artists and art students and the advanced technology facility at Garfagnana Innovazione has exciting implications for the future of architecture, sculpture and digitally-aided design and manufacture.

The artists and architects collaborated with robotics engineer Gabriel Ferri to create all of the computational data that drive the robotic cutting arm. This way of working represents the pinnacle of current manufacturing capability joined with computer aided design (CAD). Originally designed for automotive and aerospace manufacture, these robots have been co-

opted to renovate the declining stone industry in the Garfagnana region and to reintroduce the skills associated with marble sculpture. The work includes projects made with generative design, 3D scanning, and 3D programs in animation, CAD (computer aided design), and CAM (computer aided manufacture). Participants wrote algorithms to create the designs for carving or developed projects through interactive computer design programs such as Rhino 3d, Grasshopper, Cinema 4d, 3d Studio Max, and Zbrush. These works will be showcased in an exhibition on July 5th at the castle in Garfagnana and will include the carved objects and interactive media projects from augmented reality and gaming technology. Projects will be available for viewing at www.digitalstoneproject.tumblr.com

The workshop is dedicated to the memory of sculptor Riccardo Galleni, who was instrumental in bringing the two organizations together. The participants include students and professors from six colleges and universities, including Bennington College, Yale University, University of Denver, New York Institute of Technology, New Jersey Institute of Technology, and William Paterson University. Many of the participating professors are leaders in sculpture and

in sculpture and digital media. They include Jon Isherwood, Mark Foster Gage, Lawrence Argent, Robert Michael Smith, Michael Rees, and Guy Snover.

The Digital Stone Project (DSP)

The Digital Stone Project (DSP) is a Not For profit technology organization based in the USA that serves artists, architects, designers and the public at large by providing them with the means and knowledge necessary to realize innovative three-dimensional works of art using digital technologies. The DSP bridges art and technology by offering state of the art opportunities for digital application, research, and experimentation. We encourage collaboration, embrace innovation and research, and we help artists and educators achieve the highest level of creative expression using 3D technology.

Garfagnana Innovazione

Garfagnana Innovazione's mission is the application of technology and innovative machinery for marble and stone processing. The state-of-the-art Center has labs for the processing and carving of marble and stone. these labs are equipped with a wide range of manual and mechanical tools, and seven-axis robot arms for manufacturing and scanning. This unique

combination of robotic scanning and manufacturing makes possible the experimentation and realization of products in different environments, in this case to create sculpture in particular with the workshop that is now going on at the Center.

Digital Stone Project and the Garfagnana Innovazione host Artist and Architects in Historic Tuscan Stone Carving Region. June 8 - July 7, 2013

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Floryn Honnet
Puzzle Master , Marble & Mixed Materials , 32x24x24 in (81x61x61 cm), 2013



Sean Tulner
Manicomio, Marble, Mixed Media 150x88.5x50.5cm, 2013



RJ Tripodi and Nicholas Kehagias
Lilac Surface Bianca and Bardiglio marble 35.3" x 19.5" x 6.2" (89.7cm x 49.5cm x 15.8cm) 2013



Robert Michael Smith
"Garfagnana Gallop Grazie", Marble 80 x 80 x 50 cm, 31.5" x 31.5" x 20", 2013



Ariadni Vezyroglou
Il Fiume/The River white, verde alpi, bardiglio, rosa portogalo, nero marquina marbles, wood and stones from the
Serchio river 45x100x70 cm 2013

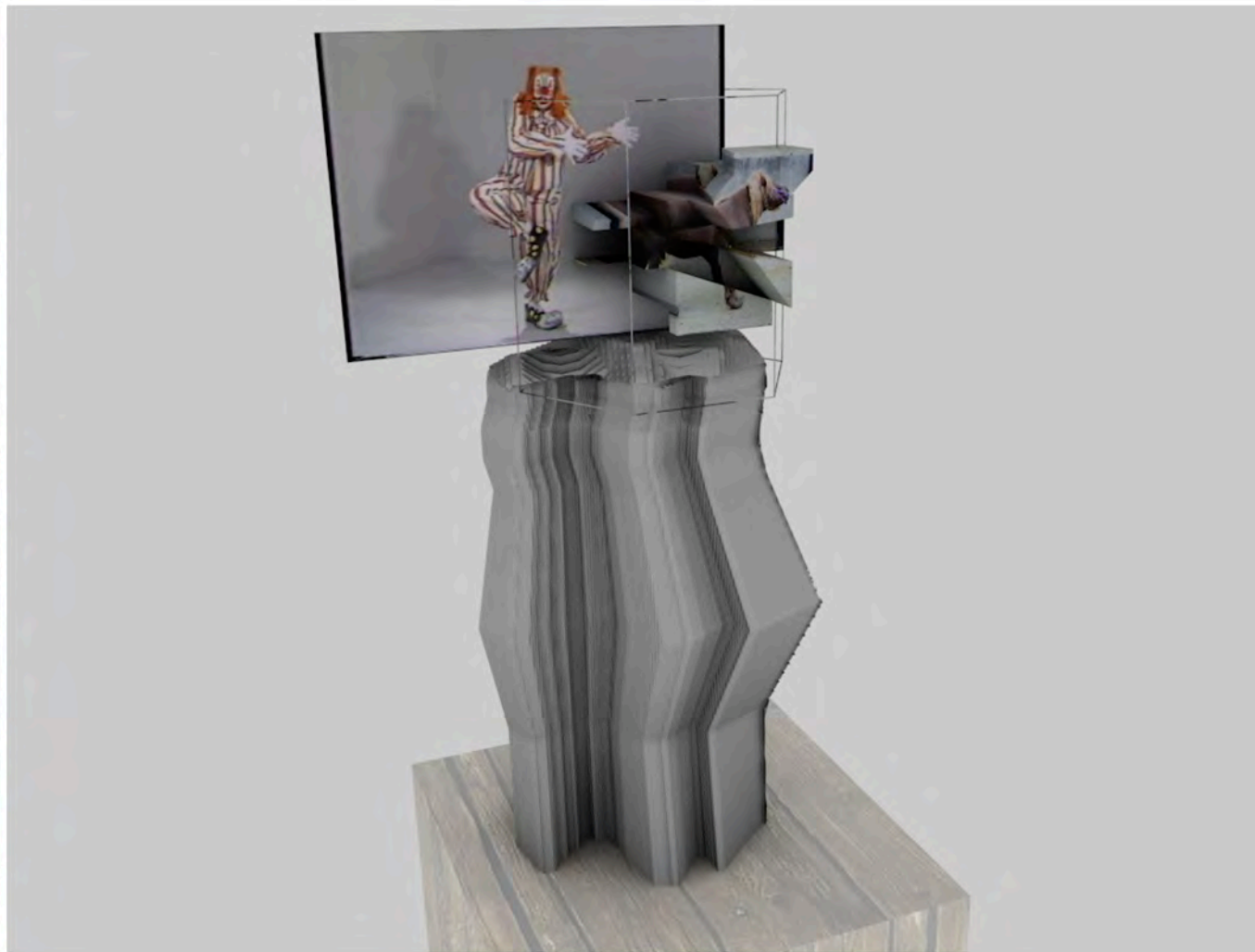


Brian Sandilands

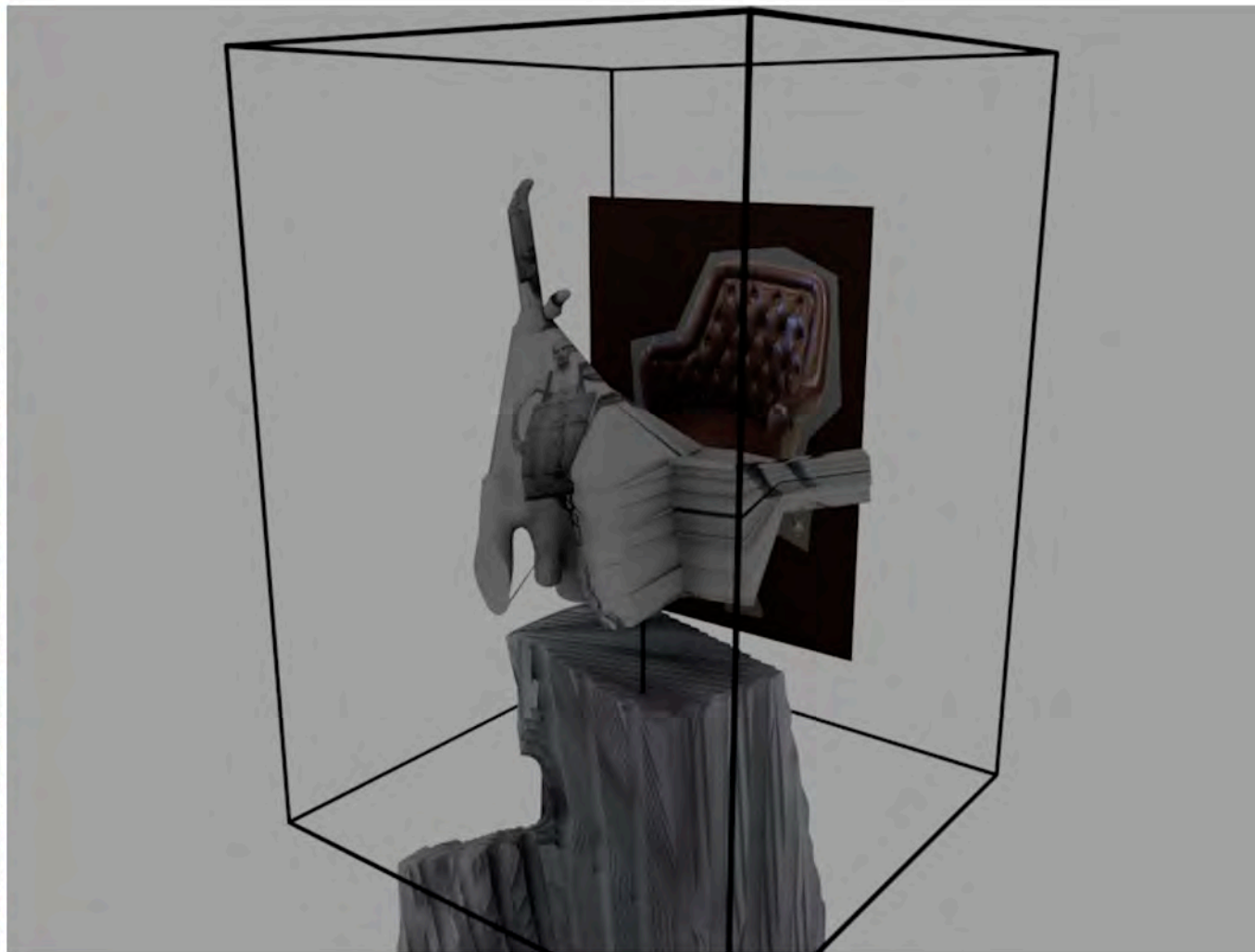
Mario in Marmo, Marble, Concrete, Spray Paint, Drum, 62x54x96 cm (marble piece), 2013



Abe Weissman
Intransient Rosebud, Marble, Rope, 56x20x17" 145x51x43cm, 2013



Michael Rees: Preservation of Finitude, Marble, augmented reality media (object with stubborn, horse), mounted inkjet print, 23x13x9" 58x33x23, 2013



Michael Rees

Occupy: Itchy Scratchy, Marble, augmented reality media, (object with Man In Barrell Suit), mounted inkjet print
23x13x9" 58x34x23cm, 2013



Frances Carroll
"Many in Faults", Marble, 72x41x59 centimeters, 2013



Guy Snover
Still Life With Flowers Marble 65cm x 87cm x 55cm (25.59" x 34.25" x 21.65") 2013



Nina Mirhabibi (born Tehran)
Anar (The pomegranate) White Marble of Focolaccia 60x40x48 cm 2013



Lawrence Argent
work in progress, marble, 107 x 36 x 44 cms 42 x 14 x 17 inches, 2013



Jonathan Van Ostenbridge & Thomas Yeh
"Jessica", Marble, 107cm x 71.5cm x 53.5 cm (42" x 28" x 21"), 2013



Claire Barber
Larber, Marble, 24x18x45 in (61x46x114 cm), 2013



Nicholas A. Sadnytzky
Injustice to Destruction, White Marble, 43.5x22.5x23" 110.49x57.15x58.42cm, 2013

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