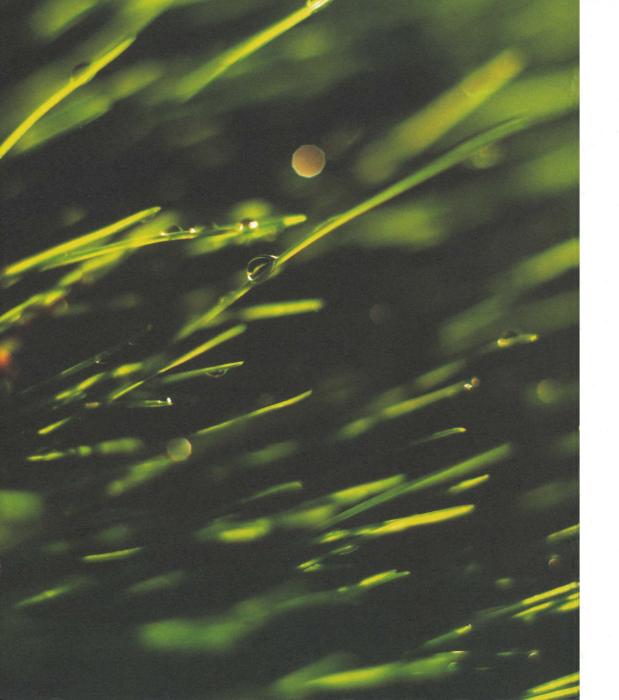
Heather Ackroyd + Dan HarveyGreen brick, green back



22 January - 29 February 2004

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Foreword

At a moment in contemporary art when digital media seem to have overtaken "traditional" photography, it is fascinating to consider that Heather Ackroyd's and Dan Harvey's monumental images are made using the same methods developed by their countryman, William Henry Fox Talbot (1800–1877), who created the first photographic negative more than 150 years ago. Using grass as their medium for many years, Heather and Dan have pushed photography's potential into exciting and unforeseen areas. The artists discovered that a plane of growing grass is a light-sensitive surface akin to a sheet of photographic paper; the same tonal range found in a black and white photograph can be created in grass in shades of yellow and green. Thus, the grass surfaces they grew on-site for *Green brick, green back* recorded even the smallest details of their photographic negatives, from the crumbling corner of a brick column to the intricate designs on the back of an American dollar bill — an exactitude long associated with photography.

I am grateful to Heather and Dan for the garden-like pleasures their work brought us during their residency and the exhibition, and for the lucid and informative writings they contributed to this catalogue. Thanks also, to friend and colleague Karen Rapp, for her ongoing enthusiasm for Ackroyd's and Harvey's work since we first saw it in *Paradise Now: Picturing the Genetic Revolution* (2000) at Exit Art, New York.

Kimberly Davenport

Director

Green brick, green back

Green brick, green back ties into our relate to our working process, since experience of being at Rice Gallery in bricks are fired clay, and clay is the Houston. Upon arriving at Rice, one of substrate into which we plant our grass our first impressions was of the univer- seed. Much of our work is architecsity's tall, red brick walls rising out of turally-based and we were intrigued by verdant lawns. The sturdy-looking buildings seemed at odds with the clapboard Sewall Hall (home of Rice Gallery) houses we had seen in surrounding inside, of having a brick wall transneighborhoods, as well as the wooden formed into a grass wall. Bricks that construction rapidly going up in all areas of the city. Bricks evoke stability and longevity, particularly in a city level, the bricks of the Rice buildings oil refineries, which someone had

the idea of bringing the exterior of appeared as hard and permanent were made soft and mutable.

The second image, the dollar bill, is where so many buildings are being our response to a series of thoughts that knocked down and new ones spring up we had about Houston after our first visit to take their places. On an elemental in June 2003. We were intrigued by the

referred to as "the Emerald City gone bad," and the fact that oil comes about through an ancient process of photosynthesis, as do all fossil fuels. The images we create in grass photographs also occur by virtue of photosynthesis. To us, a dollar bill grown in grass epitomized the link between this fundamental biochemical process, and the influence and power of oil and oil-connected industries in Houston. Then, too, we were intrigued by the occult imagery on the dollar bill, particularly the unfinished brick pyramid capped by the all-seeing eye. These two seemingly paradoxical images the brick columns and the reverse of the

dollar bill - resonate on a number of levels. The folds we made in the dollar echo those of the brick columns. The materiality of the brick wall locates us in the here and now but the dollar bill, while an object, is actually conceptual; its influence is everywhere. Both bricks and dollars can be seen as building blocks, yet here, in grass, they are intrinsically ephemeral.

> Heather Ackroyd + Dan Harvey 21 January 2004, Houston, Texas

Understanding the nature of a grass photograph

by Heather Ackroyd + Dan Harvey

Photography is defined as the process or art of producing pictures by means of chemical action of light on a sensitive film.

When we grow a grass photograph, we from seed, and depending on the scale of follow the same principles fundamental to the making of a photographic print. We existing or portable wall covered with clay use a negative film, expose an image onto a growing wall or canvas of grass through projection, and fix the image through a combination of special seed and drying techniques. The equivalent tonal range found in a black and white photograph is created in the grass photograph in a subtle range of shades of green and yellow.

Since most of our work is site-specific, 12 hours a day, for seven days. we transform the exhibition space into a

the work, is planted vertically onto an substrate. After planting, the seed is watered daily using a high-pressure hose system. To create the 16' x 32' image at the Rice Gallery, we used a 2.5-kilowatt projector. This machine uses a largeformat negative specially prepared by a London-based company to withstand the high temperatures and lengthy projection times. At Rice, the negative was projected

The bio-chemical reactions that occur cavernous darkroom. The grass is grown on a molecular level give the image its





extraordinarily complex and subtle range and yellow hues are subdued into of tones. Where the light from the projector falls, the green pigment chlorophyll is role when these pieces are in a dry state. produced. Where no light falls, the grass grows, but as a result of other light-independent pigments, it is a bright yellow color. Ironically, the light that creates the imprinted image can also remove it. typically shown in low non-direct light. Strong natural light will encourage the Where light does enter the space some yellow, light-deprived areas of grass to make chlorophyll and photosynthesize, causing the transient image to rapidly turn to green. Thus, after days of nurturing the grass we set about killing it as tute of Grassland and Environmental quickly as possible. We dry the grass by Research (IGER), Wales, UK, who over the using dehumidifiers. The loss of moisture last few years, have developed a special causes the cell structure to break down, seed called stay-green grass. This seed and the withering of the tender leaves is now available commercially in the

gentler tones. Light still plays a critical Direct light onto the piece causes bleaching of the remaining chlorophyll preserved in the leaves, so to maintain optimum viewing time the pieces are fading of the image will gradually occur.

To prevent the loss of the image in the grass we embarked upon a remarkable relationship with scientists at the Instibegins to occur. Also, the vibrant green United Kingdom through British Seed





Houses as So-Green grass seed. What is remarkable about this seed is that it does not lose its green color even when it is dying. Most plants when exposed to harsh environmental conditions begin to senesce, that is, they lose the green color. This is part of the plants' strategy for survival. In a stay-green grass, the impulse to break down chlorophyll does not exist. Somehow, this crucial step has been sidestepped. Stay-greens are a naturally occurring manifestation, one of nature's aberrations.

The scientists at IGER identified the pathway of chlorophyll breakdown, isolated the gene responsible for color maintenance in a stay-green and through a traditional plant husbandry method, crossbred it into a ryegrass. We have had



an on-going, and in a sense, a symbiotic relationship with the scientists at IGER since 1997. By studying the tonal range in a grass photograph the scientists have initiated a revolutionary non-invasive way of observing color in plant cells through the use of hyper-spectral imaging.

By using the stay-green grass we have found that we can extend significantly the viewing life of the images in our grass photographs. We do not know exactly how long the image will remain visible. Currently a work in an exhibition at The Exploratorium in San Francisco has been on view for over a year and the image is still very visible. Our science colleagues have suggested that with good conservation a grass photograph can be visible for decades.























- 1, 2. Heather and Dan preparing So-Green grass seed for germination
- 3. Seed germinating on the gallery plaza

- 4. Heather mixing Kentucky ball clay
- 5. Clay mixture
- 6. Back wall of gallery prepared with burlap
- 7. Heather spreading clay onto burlap

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- 8. Dan spreading clay onto burlap
- 9. Watering the growing grass with high-pressure sprayer
- 10. Grass seed covered with plastic to keep moisture in
- 11. Gallery's front window covered in plastic; projector aimed toward back wall

- 12. Dan focusing the projector
- 13. Pani large-format projector
- 14. Dollar bill negative projected onto seedling grass
- 15. Watering the grass photograph

About the Artists

Both Heather Ackroyd and Dan Harvey were born in England in 1959, and completed their fine arts studies in the United Kingdom in the early 1980s, Heather at Manchester Metropolitan University, Cheshire, and Dan at Cardiff College of Art, Wales and Royal College of Art, London. Their recent large-scale projects include Photosynthesis (2004) at Metrònom, Barcelona; Dilston Grove (2003), (Former Clare College Mission Church), London; Field Study (2003), a Special Commission for National Eisteddfod, commissioned by LIFT (London International Festival of Theatre), London; Supernatural (after Piero di Cosimo) and Specific Natures (2003), commissioned by the Chicago Public Art Program; Sunbathers (2002), Aberystwyth Arts Centre, Wales; Afterlife (2001), commissioned by Beaconsfield, London, and Presence (2001), an exhibition of works created during the artists' residency at the Isabella Stewart Gardener Museum, Boston. Ackroyd and Harvey received the Pioneer Art and Science Award from the National Endowment for Science, Technology & Arts (NESTA), United Kingdom in 1999, and the L'Oreal Art and Science of Color Grand Prize for Mother and Child in 2000. Heather, Dan, and their daughter, Adele, live in Dorking, England. Artsadmin, United Kingdom, represents the artists.



Heather Ackroyd + Dan Harvey Green brick, green back, 2004 Commission, Rice University Art Gallery

Rice University Art Gallery is located in Sewall Hall on the campus of Rice University, 6100 Main Street, Houston, Texas 77005, and on the web at ricegallery.org.

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