

SPECIAL SECTION

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Edited by Michael J. Bailey

1. Image sequence from an animation of a wall being struck by a wrecking ball

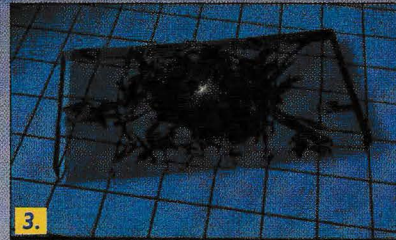
James F. O'Brien, Georgia Institute of Technology; Wayne L. Wooten, PIXAR Animation Studios; Jessica K. Hodgins, Georgia Institute of Technology

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2. Image from an animation of a wall being struck by a wrecking ball

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3. Shattered glass

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4. Broken Bowl

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5. Bowls with different toughness values

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6. Comparison of real and simulated bowls

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Studios; Jessica K.
Hodgins, Georgia Insti-
tute of Technology

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7. Teapots coated with multilayer films (1)

Programmer: Hideki
Hirayama, Hiroshima
University; Programmer:
Yoshiki Yamaji, Hiroshima
University; Technical
Advisor: Hideo
Yamashita, Hiroshima
University; Technical
Advisor: Yoshimi
Monden, Shimane
University

Kazufumi Kaneda

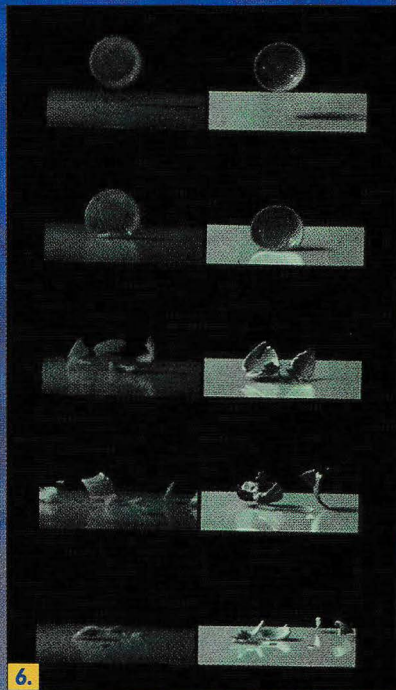
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8. Teapots coated with multilayer films (2)

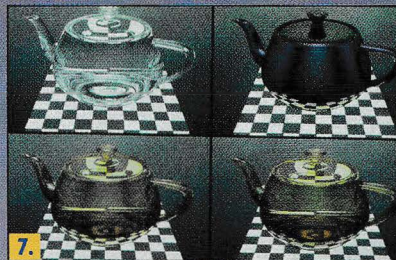
Programmer: Hideki
Hirayama, Hiroshima
University; Programmer:
Yoshiki Yamaji, Hiroshima
University; Technical
Advisor: Hideo
Yamashita, Hiroshima
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Advisor: Yoshimi
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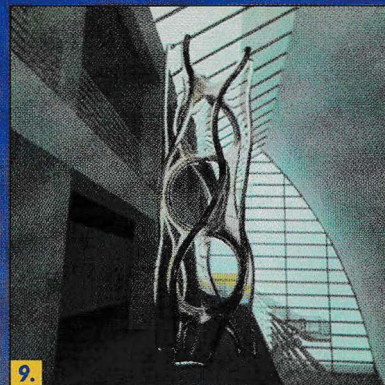
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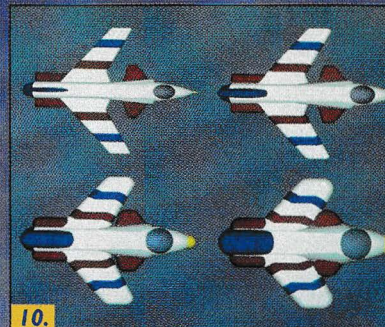
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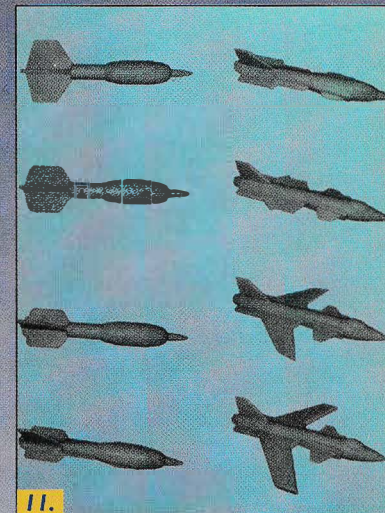
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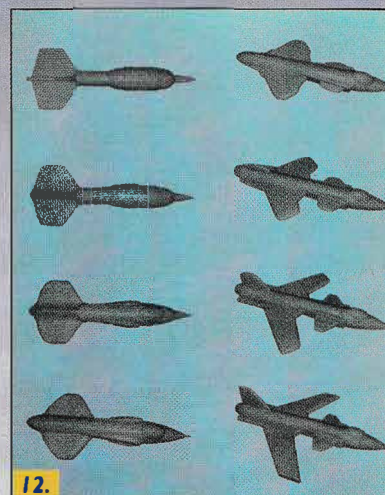
9.



10.



11.



12.

Technical Set

9. Scherk-Collins Glass Monument

Carlo Sequin, UC
Berkeley; Greg Ward
Larson, SGI; Jane Yen, UC
Berkeley

Carlo Sequin

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10. Generating and Color Shading Offset Surfaces Using Distance, Closest-Point and Color Volumes (X-29)

David E. Breen and Sean
Mauch, California Insti-
tute of Technology

David Breen

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11. A Level-Set Approach for the Metamorphosis of Solid Models (dart to X-29(1))

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nology; Ross T. Whitaker,
University of Tennessee

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12. A Level-Set Approach for the Metamorphosis of Solid Models (dart to X-29(2))

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Technical Set

13. A Level-Set Approach for the Metamorphosis of Solid Models (mug to chain)

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14. Generating and Color Shading Offset Surfaces Using Distance, Closest-Point and Color Volumes (CSG Part)

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15. A Street Corner Just After Sunrise

Eihachiro Nakamae, Hiroshima Institute of Technology and Sanei Co.; Xueying Qin, Sanei Co.

Xueying Qin

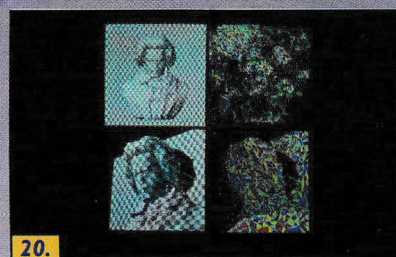
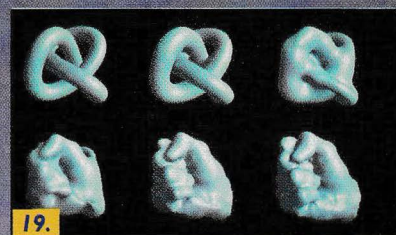
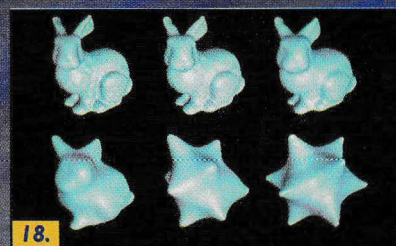
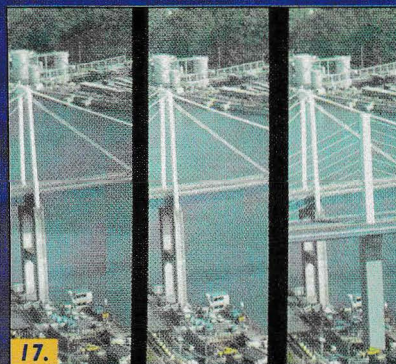
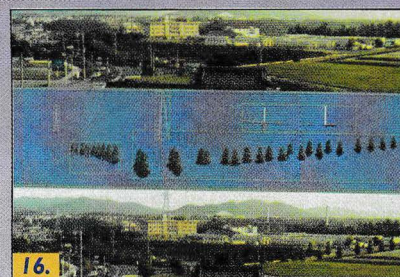
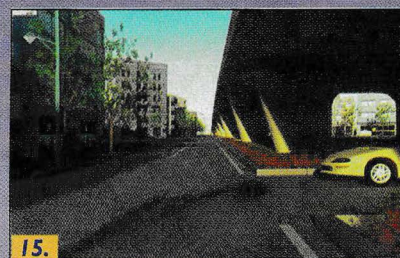
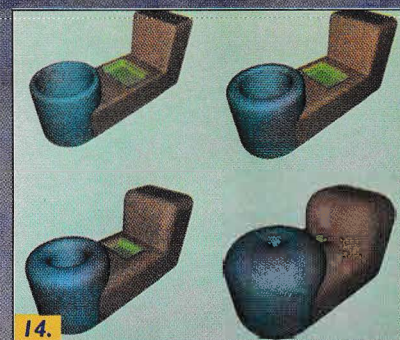
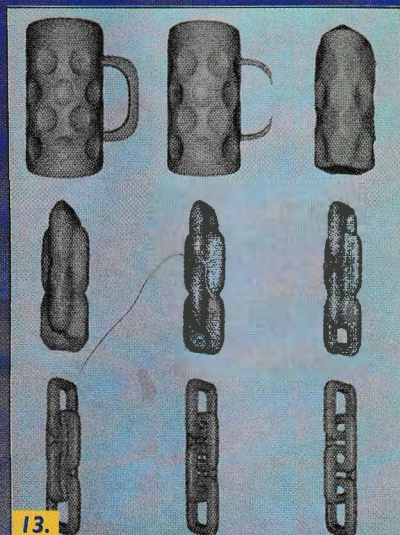
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16. Compositing Panoramic Scene and CG Images

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Xueying Qin

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17. Construction of a New Bridge

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Xueying Qin

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18. Bunny/Star Implicit Transformation

Greg Turk and James O'Brien, Georgia Institute of Technology

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19. Knot/Fist Shape Transformation

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20. Warping Beethoven I

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Tien-Tsin Wong

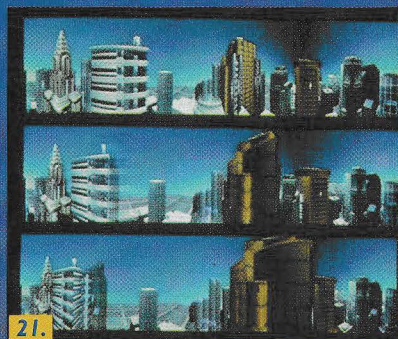
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21. Warp the City

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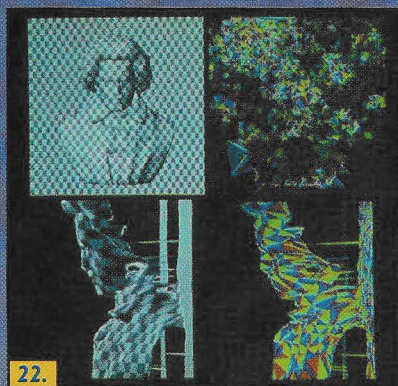
21.

22. Warping Beethoven II

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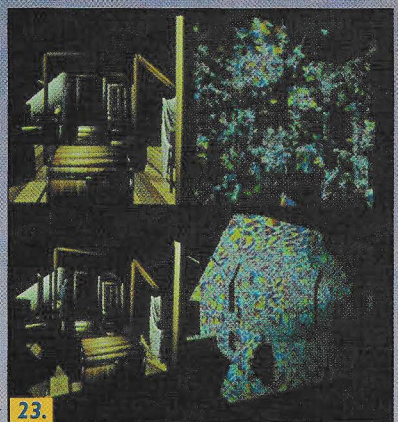
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23. The 2D Illusion of Attic

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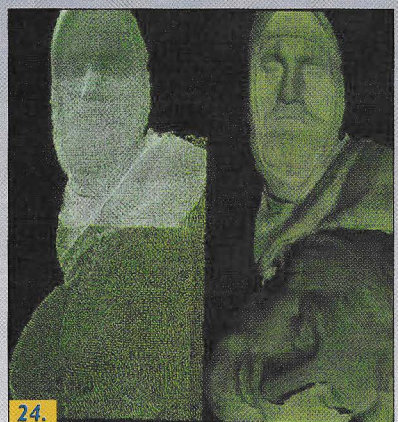
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24. From Points to Model

Fausto Bernardini and Holly Rushmeier, IBM T.J. Watson Research Center

Holly Rushmeier

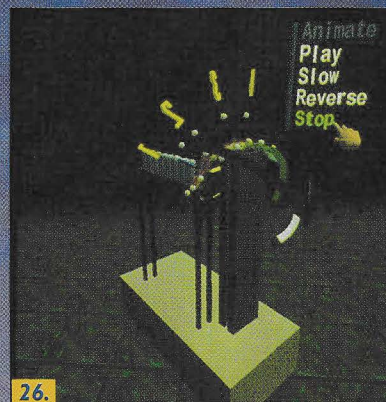
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24.



25.



26.



27.



28.

25. Reconstructing Michelangelo's Florentine Pieta

Fausto Bernardini, Joshua Mittleman and Holly Rushmeier, IBM T.J. Watson Research Center

Holly Rushmeier

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26. Soda Can Spherical Mechanism

Todd J. Furlong and Judy M. Vance, Iowa Center for Emerging Manufacturing Technology, Iowa State University

Judy Vance

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27. Type Map Interaction for Spherical Mechanism Design

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Judy Vance

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28. Virtual Factory in the C2

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29. Shape Design in a Virtual Environment

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30. Virtual Prototyping of Construction Equipment in the C2

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31. Interactive Stress Analysis in a Virtual Environment

Tsung-Pin Yeh and Judy M.Vance, Iowa Center for Emerging Manufacturing Technology, Iowa State University

Judy Vance

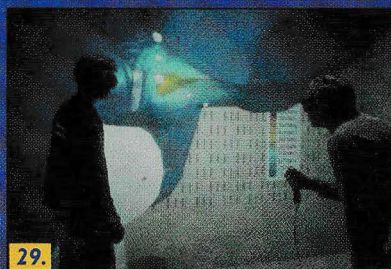
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32. Detail-Preserving Contrast Reduction using LCIS Method

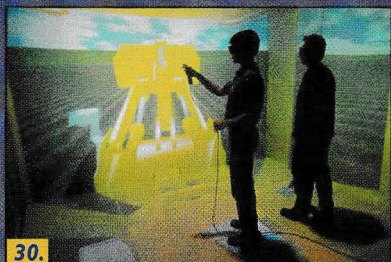
Source radiance map courtesy of Paul Debevec, University of California at Berkeley from his 1997 SIGGRAPH paper. Result shown here computed by Jack Tumblin, Georgia Tech College of Computing and GVU Center, 1999.

Jack Tumblin

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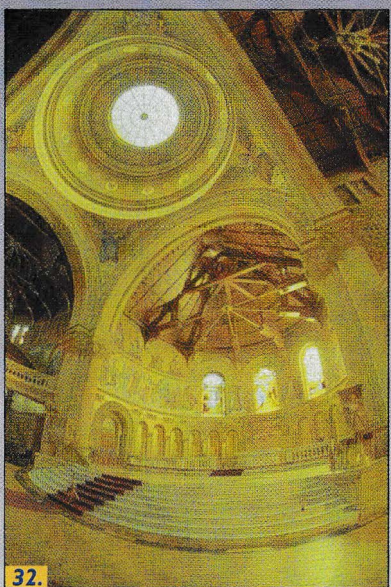
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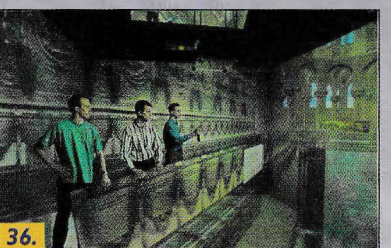
33.



34.



35.



36.

33. Detail-Preserving Contrast Reduction Using LCIS Method

Source image courtesy Simon Crone (proposed Burswood Hotel suite refurbishment, 1995). Interior design: The Marsh Partnership, Perth, Australia. Computer simulation: Lighting Images, Perth, Australia. Copyright 1995, Simon Crone. Results shown here computed by Jack Tumblin, Georgia Tech College of Computing and GVU Center, 1999.

Jack Tumblin

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34. Animal Morphology Comparison With Panoramas

Matthew Hinton, student at Trinity University

Matthew Hinton

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35. Tray Table Spherical Mechanism Design

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36. The Notre-Dame of Paris in the Year 1220 AD

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Carolina Cruz-Neira ICENT

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37. The Tempietto by Bramante, with original courtyard design
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38. The Speyer Cathedral of Germany
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39. A Walk in the Courtyard of the Roman Pantheon

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40. The Power of Presence in Architectural VR: The Pantheon

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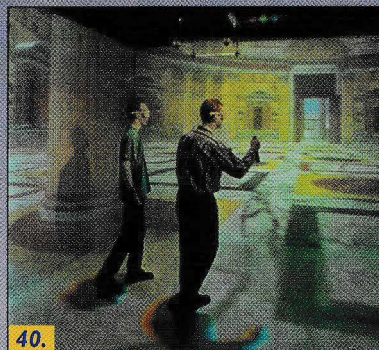
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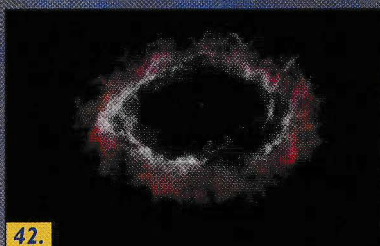
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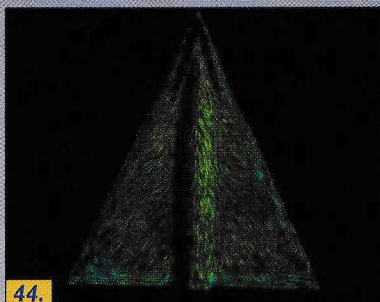
41.



42.



43.



44.



45.

41. germZ

Peter Testa, MIT associate professor; Devyn Weiser and Una-May O'Reilly, MIT Emergent Design Group; Brian P. Clarkson, programmer; Hyung-Jin Kim, programmer.

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 MIT

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42. Planetary Nebula
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43. Turbulent Sun
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44. Enhanced LIC Flow Visualization Method
 V. Verma, D. Kao, A. Pang, UCSC

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45. Unsteady Flow LIC Visualization Method
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46. PLIC Flow Visualization Method

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A. Pang, UCSC

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47. 3D Vortex with Cutting Planes

Center of Computational Visualization,
University of Texas, led
by Prof. Chandrajit Bajaj

Chandrajit Bajaj

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48. Structure of Borromean ring topologies

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Greenberg, San Diego
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Kim Baldrige

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49. A Stack of Fullerene Molecules

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Kim Baldrige

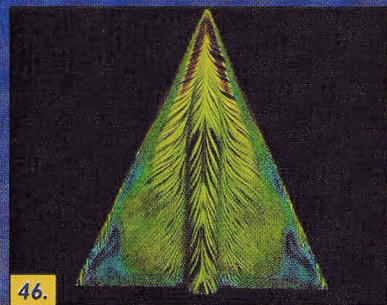
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50. Porphyrin Structure

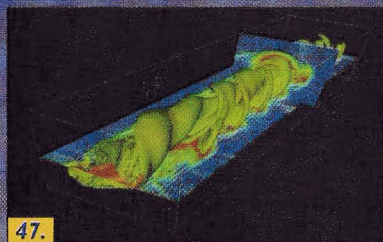
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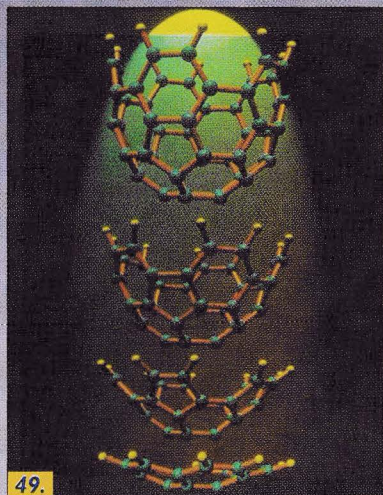
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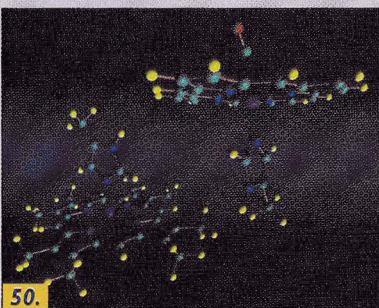
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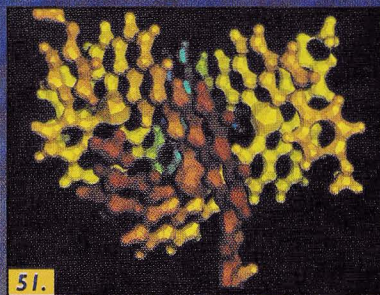
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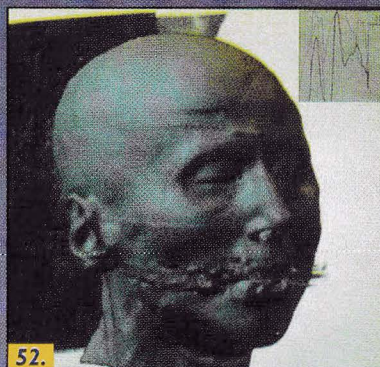
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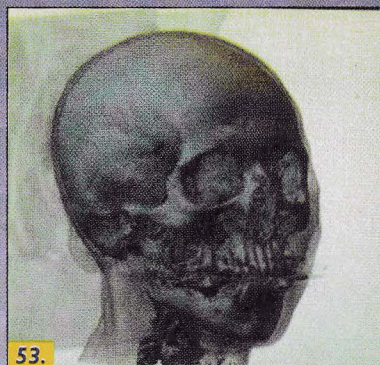
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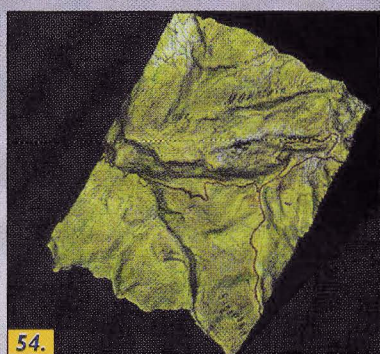
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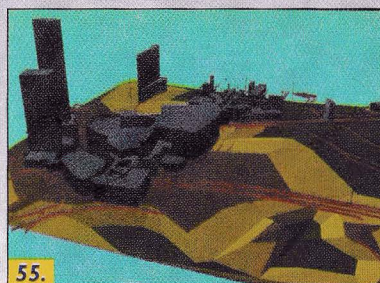
52.



53.



54.



55.

51. ChromaDepth-rendered Grid of Phenanthroline

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52. Direct Volume Rendering of Head Data

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53. Direct Volume Rendering of Head Data

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54. All Mapped Out

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55. Common Place Visualization

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56. Cardiac Currents

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57. Inverse EEG Showing Brain Activity

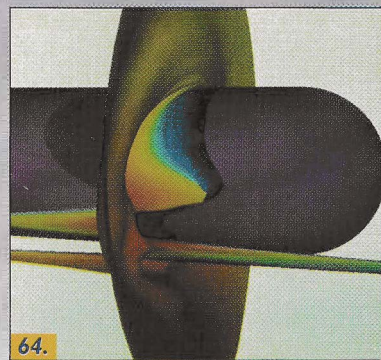
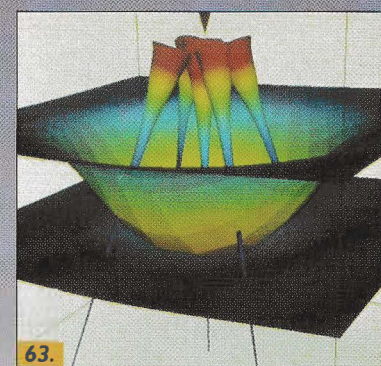
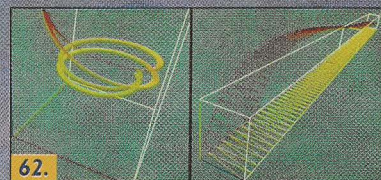
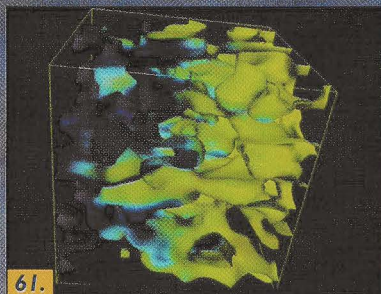
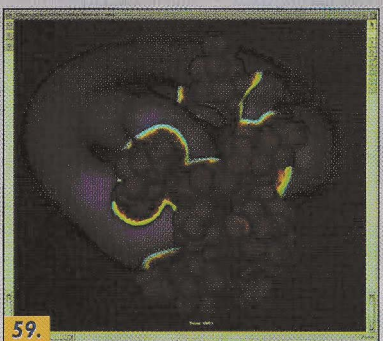
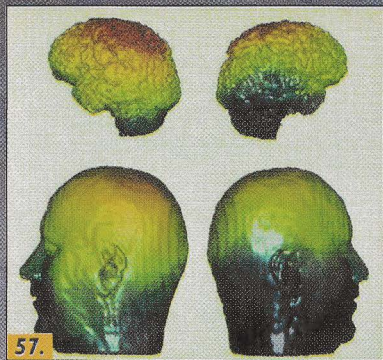
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58. Standing on Virtual Ground

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59. Unstructured
Isocontouring of
Glucose
Center of Computational
Visualization, University
of Texas, led by Prof.
Chandrajit Bajaj

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60. Hydrodynamic
Simulation of Oil
Through a Reservoir
Center of Computational
Visualization led by Prof.
Chandrajit Bajaj, in
collaboration with the
oil reservoir simulations
by the Center of
Subsurface Modeling, led
by Prof. Mary Wheeler

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61. Surface
Permeability
Center of Computational
Visualization led by Prof.
Chandrajit Bajaj, in
collaboration with the
oil reservoir simulations
by the Center of Subsur-
face Modeling, led by
Prof. Mary Wheeler

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62. Ribbon Comparison
in Flow Visualization
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Pang, UCSC

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63. Single Point Load
Boussinesq Problem
E. Boring, A. Pang, UCSC

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64. Cylinder with
Hemispherical Cap
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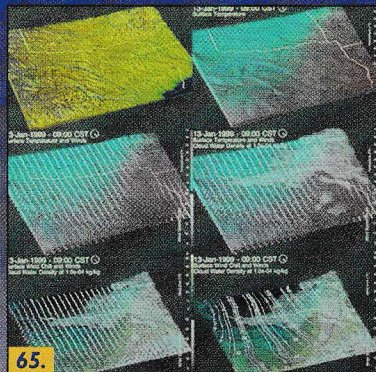
Technical Set

65. Interactively Designing a Weather Visualization

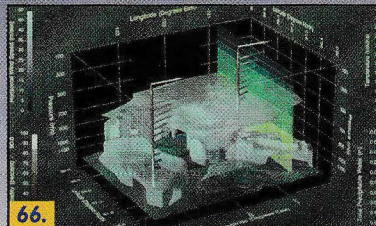
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lloyd@watson.ibm.com

66. Three-Dimensional Analysis of Weather Observations

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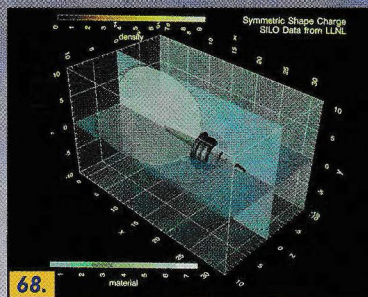
65.



66.



67.



68.

67. The Remnants of Hurricane Mitch

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68. Mixed Materials and Density from a Simulation of a Symmetric Shape Charge

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