













AT&T
Bell Laboratories

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March 13, 1984

Mr. Oliver Strimpel
Computer Museum of Boston
Museum Wharf
300 Congress Street
Boston, Massachusetts 02210

Dear Mr. Strimpel:

In response to your February request enclosed please find seven color transparencies which I trust meets with your approval and which you will find interesting enough to be part of your "Computer & Images" exhibit.

If you do use the slides, please word credit line as "courtesy of AT&T Bell Laboratories."

Sincerely,

Irma B. Biren
Supervisor
Information Services

Enclosure



Public Relations Photo Service
(201) 564-4245

Subject: **ELECTRONICS**
Integrated Circuit Production

Number: 82-408

Source: 1981 Recruiting Brochure,
Creating New Dimensions in
Microelectronics

Date Taken: Jan. 1981

Place Photographed: Murray Hill, N.J.

Background Information:

This symbolic representation of many levels of an integrated circuit was drawn on a CRT with the aid of a computer-aided design tool called RAPID.

Persons shown: (none)

Model release received

Original: B/W
 Color

Negative: 35mm
 120
 4 x 5
 other

Transparency: 35mm
 120
 4 x 5
 other



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ELECTRONICS

Subject: Integrated Circuits
LSI Technology

Number: 80-636/10-1

Source: Bell Laboratories Record,
December 1980 cover

Date Taken: 8/13/80

Place Photographed: Bell Laboratories, Allentown, Pa.

Background Information: This photo of a video display shows part of a memory circuit as it is being designed with the aid of a computer. This is one technique Bell Labs uses to keep down the cost of designing very-large-scale integrated (VLSI) circuits.

Persons shown: none

Model release received

Original: B/W
 Color

Negative: 35mm
 120
 4 x 5
 other

Transparency: 35mm
 120
 4 x 5
 other



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COMPUTERS

Subject: Computer Graphics

Number: 82-064

Source: Bell Laboratories 1981, p. 42-43

Date Taken: 2/5/82

Place Photographed: Bell Laboratories, Murray Hill, New Jersey

Background Information:

The figures illustrate one possible use of an experimental computer graphics system that some day could enhance teleconferencing. The system creates animated images in response to directions transmitted over ordinary telephone lines. (Two-part photo)

Persons shown:

Model release received

Original: B/W
 Color

Negative: 35mm
 120
 4 x 5
 other

Transparency: 35mm
 120
 4 x 5
 other



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COMPUTERS

Subject: Computer Graphics

Number: CB 81-1936-HO

Source: Photo Files

Date Taken: 1981

Place Photographed: Bell Labs, Holmdel, New Jersey

Background Information:

In this integrated circuit layout different colors correspond to individual mask layers.

Persons shown: none

Model release received (not needed)

Original: B/W
 Color

Negative: 35mm
 120
 4 x 5
 other

Transparency: 35mm
 120
 4 x 5
 other



Public Relations Photo Service
(201) 582-5661

COMPUTERS

Subject: Computer Graphics

Number: 80-458

Source: Photolog '80

Date Taken: Sept. 1980

Place Photographed: Bell Laboratories

Background Information: This scene was produced by an engineer using a computer at Bell Labs. The technique involved may help design yellow page ads and tiny, complicated telephone circuits.

Persons shown:

Model release received

Original: B/W
 Color

Negative: 35mm
 120
 4 x 5
 other

Transparency: 35mm
 120
 4 x 5
 other



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COMPUTERS
Subject: Computer Design

Number: 80-477

Source: Bell Labs 1980, p. 11

Date Taken: 10/7/80

Place Photographed: Bell Laboratories, Holmdel, N.J.

Background Information: Computer-aided design of integrated circuits. An experimental, interactive computer-based system is helping Bell Labs design engineers lay out and examine new integrated circuits on a color-graphics display terminal. A circuit's layers are shown in different colors, and the engineer can easily modify the circuit design by using the system's comprehensive software package. Bell Labs has used other advanced computer-aided design techniques for such complex circuits as an echo canceler chip that improves transmission quality on satellite circuits. This chip contains 35,000 transistors and replaces about 350 separate integrated circuits.

Persons shown: (left to right) Neil Weste; Bryan Ackland

Model release received

Original: B/W
 Color

Negative: 35mm
 120
 4 x 5 Conversion
 other

Transparency: 35mm
 120
 4 x 5
 other