



Smithsonian  
*National Museum of American History*  
*Kenneth E. Behring Center*

## Guide to the Gadil Ashok Innovative Lives Presentation and Interview

NMAH.AC.0647

Alison Oswald

1998

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## Collection Overview

<b>Repository:</b>	Archives Center, National Museum of American History
<b>Title:</b>	Ashok Gadgil Innovative Lives Presentation and Interview
<b>Identifier:</b>	NMAH.AC.0647
<b>Date:</b>	1998 January 16 1998 April 28 1996 - 1996
<b>Extent:</b>	0.5 Cubic feet (5 boxes)
<b>Creator:</b>	Jerome and Dorothy Lemelson Center for the Study of Invention and Innovation. Gadgil, Ashok Berger, Sondra
<b>Language:</b>	English  Collection is in English.
<b>Summary:</b>	Original, master, and reference videos documenting an Innovative Lives presentation and interview with Ashok Gadgil, inventor of the UV Waterworks disinfectant unit.

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## Administrative Information

### Acquisition Information

This video presentation and interview was created by the Innovative Lives Program of the Jerome and Dorothy Lemelson Center for the Study of Invention and Innovation on April 28, 1998.

### Provenance

The collection was transferred from the Lemelson Center to the Archives Center on June 2, 1998.

### Separated Materials

UV Water Works Disinfectant unit is located in the Division of Medicine and Science. See accession #: 1998.0158.01.

### Available Formats

Original videos digitized in 2014. See repository for details.

### Processing Information

Processed by Alison Oswald, 2006.

## Preferred Citation

Ashok Gadgil Innovative Lives Presentation and Interview, Archives Center, National Museum of American History, Smithsonian Institution

## Restrictions

Collection is open for research.

## Conditions Governing Use

Collection items available for reproduction, but the Archives Center makes no guarantees concerning copyright restrictions. Other intellectual property rights may apply. Archives Center cost-recovery and use fees may apply when requesting reproductions.

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## Biographical / Historical

Ashok Gadgil, was born in India and is a physicist at the Lawrence Berkeley National Laboratory in California. Gadgil invented the UV Waterworks, a water purifier that provided reliable, inexpensive water disinfection for the world. The UV Waterworks uses ultraviolet light to kill waterborne pathogens (bacteria, viruses, and molds) and thus purify drinking water. The key to this invention is the effect ultraviolet light has on bacteria and viruses--it triggers the formation of peptide bonds between certain nucleic acids in the pathogens' DNA molecules, which robs them of the ability to reproduce and renders them harmless. Water, powered by gravity, flows down through pipes, passing into a tray where it is exposed to twelve seconds of ultraviolet light before it flows out a spigot. Gadgil used sheet metal, UV lamps, and stainless-steel piping to create this invention.

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## Scope and Contents

This collection contains original, master, and reference videos, and audio cassettes documenting Ashok Gadgil, inventor of the UV Waterworks, a water purifier.

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## Arrangement

The collection is divided into four series.

Series 1: Original videos, 1998

Series 2: Master Videos, 1998

Series 3: Reference Videos, 1998

Series 4: Photographs and Slides, 1998

## Names and Subject Terms

This collection is indexed in the online catalog of the Smithsonian Institution under the following terms:

Subjects:

- Physicists
- Ultraviolet radiation
- Water -- Bacteriology
- Water -- Purification
- Water -- Ultraviolet treatment

Types of Materials:

- Interviews -- 1980-2000
- Oral history -- 1990-2000
- Videotapes -- 1990-2000

Names:

- Lawrence Berkeley National Laboratory.

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## Container Listing

### Series 1: Original Videos, 1998 April 28

*16 videocassettes (betacamsp)*

Box 1, Video OV 647.1	Innovative Lives Presentation , 1998
Box 1, Video OV 647.2	Innovative Lives Presentation , 1998
Box 1, Video OV 647.3	Innovative Lives Presentation , 1998
Box 1, Video OV 647.4	Innovative Lives Presentation , 1998
Box 1, Video OV 647.5	Innovative Lives Presentation , 1998
Box 1, Video OV 647.6	Innovative Lives Presentation , 1998
Box 1, Video OV 647.7	Innovative Lives Presentation , 1998
Box 1, Video OV 647.8	Innovative Lives Presentation , 1998
Box 1, Video OV 647.9	Innovative Lives Presentation , 1998
Box 1, Video OV 647.10	Innovative Lives Presentation , 1998
Box 1, Video OV 647.11	Innovative Lives Presentation , 1998
Box 1, Video OV 647.12	Innovative Lives Presentation , 1998
Box 1, Video OV 647.13	Innovative Lives Presentation , 1998
Box 1, Video OV 647.14	Ashok Gadgil Interview , 1998 January 16
Box 1, Video OV 647.15	Ashok Gadgil Interview , 1998 January 16
Box 1, Video OV 647.16	Ashok Gadgil Interview, 1998 January 16

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## Series 2: Master Videos, 1998 April 28

*7 videocassettes (betacamsp)*

Box 2-3, Video MV 647.1	Innovative Lives Presentation , 1998
Box 2-3, Video MV 647.2	Innovative Lives Presentation , 1998
Box 2-3, Video MV 647.3	Innovative Lives Presentation , 1998
Box 2-3, Video MV 647.4	Innovative Lives Presentation , 1998
Box 2-3, Video MV 647.5	Innovative Lives Presentation , 1998
Box 2-3, Video MV 647.6	Innovative Lives Presentation , 1998
Box 2-3, Video MV 647.7	Innovative Lives Presentation, 1998

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## Series 3: Reference Videos , 1998 January 16, 1998 April 28

## Subseries 3.1: Copy, Set One, 1998 - 1998

*8 videocassettes (vhs)*

- Box 5, Video RV 647.1A Ashok Gadgil Interview, (Interview by Helen Weiss) , 1998 January 16
- Box 4, Video RV 647.1 Innovative Lives Presentation , 1998 January 16  
Total Running Time: 60:00  
Donation ceremony of the UV Waterworks by Ashok Gagil to the national Museum of American History. Introductory remarks by John Fleckner, Associate Director of the Lemelson Center
- Box 4, Video RV 647.2 Innovative Lives Presentation , 1998  
Total Running Time: 60:00  
Post donation ceremony interview and Innovative Lives Presentation.
- Box 4, Video RV 647.3 Innovative Lives Presentation , 1998
- Box 4, Video RV 647.4 Innovative Lives Presentation , 1998
- Box 4, Video RV 647.5 Innovative Lives Presentation , 1998
- Box 4, Video RV 647.6 Innovative Lives Presentation , 1998
- Box 4, Video RV 647.7 Innovative Lives Presentation, 1998

## Subseries 3.2: Copy, Set Two, 1996 - 1996, 1998 - 1998

*8 videocassettes (vhs)*

- Box 4, Video RV 647.1 Innovative Lives Presentation , 1998
- Box 4, Video RV 647.2 Innovative Lives Presentation , 1998
- Box 4, Video RV 647.3 Innovative Lives Presentation , 1998
- Box 4, Video RV 647.4 Innovative Lives Presentation , 1998
- Box 4, Video RV 647.5 Innovative Lives Presentation, 1998



Box 5, Video RV  
647.6

Innovative Lives Presentation , 1998

Box 5, Video RV  
647.7

Innovative Lives Presentation , 1998

Box 5, Video RV  
647.8

UV Waterworks Compilation reel , 1998

Total Running Time: 12 minutes

KRON-TV (NBC) Newscenter 4, San Francisco, February, 13, 1996

Headline News, June 5, 1996

KRON-TV (NBC) Newscenter 4, San Francisco, June 4, 1996

Discover Magazine, Beyond Tomorrow, undated

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## Series 4: Photographs and Slides, 1998

Box 5, Folder 1-2      Innovative Lives Presentation , 1998

Box 5, Folder 3      UV Waterworks donation ceremony, 1998

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