

# Dianna Frid Words from Obituaries

# **Dianna Frid** Words from Obituaries

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# Fred Sandback, 59, Sculptor **Of Minimalist Installations**

By KEN JOHNSON

Fred Sandback, a sculptor internationally known for his Minimalist works made from lengths of colored yarn, died on Monday at his studio in New York. He was 59.

Mr. Sandback, who suffered from depression, committed suicide, said his wife, Amy Baker Sandback.

For almost 40 years, Mr. Sandback persisted in using the simplest of means to create subtly complex perceptual effects. His most characteristic works were composed of storebought acrylic yarns in various colors, which he would stretch between different points on the walls, ceilings and floors of exhibition spaces. In response to the architecture of a particular interior, he might produce floor-to-ceiling verticals or he might outline closed forms like parallelograms, rhombuses or triangles.

To the viewer's eye, the thin, slightly fuzzy yarn would seem to lose its physical presence and turn into dematerialized lines of color. His compositions also had another uncanny illusionistic effect the colored lines seemed like the edges of transparent, glasslike planes.

This paradoxical play with material fact and perceptual illusion had philosophical implications. Like other Minimalists, Mr. Sandback wanted to focus the viewer's awareness on the here and now, to avoid directing the imagination toward anything any solid object or symbolic refernot immediately present. Without ence, his works promoted a heightened sensitivity to the experience of being and moving about in space and to ways that perceptions can alter the bare facts.

The artist traveled internationally to install his works at galleries and museums, carrying all the materials he needed in a single bag.

Frederick Lane Sandback was born in Bronxville, N.Y., on Aug. 29, 1943. After majoring in philosophy at Yale, he went on to the Yale School of Art and Architecture, earning an M.F.A. degree in sculpture in 1969. Decisively influenced as a student by the visiting instructors Donald Judd and Robert Morris, founders of the Minimalist movement, Mr. Sandback started creating simple, linear structures by bending and welding lengths of thin steel rod.

In 1967, Mr. Sandback produced the sculpture that would establish the terms of his mature work. Using string and wire, he outlined the shape of a 20-foot-long 2-by-4 board lying on the floor. Though in fact they contained nothing but air, the lines read as the edges of an almost visible object. From that piece it was a short but significant step to the manipulation of space itself.

Success came early for Mr. Sand-

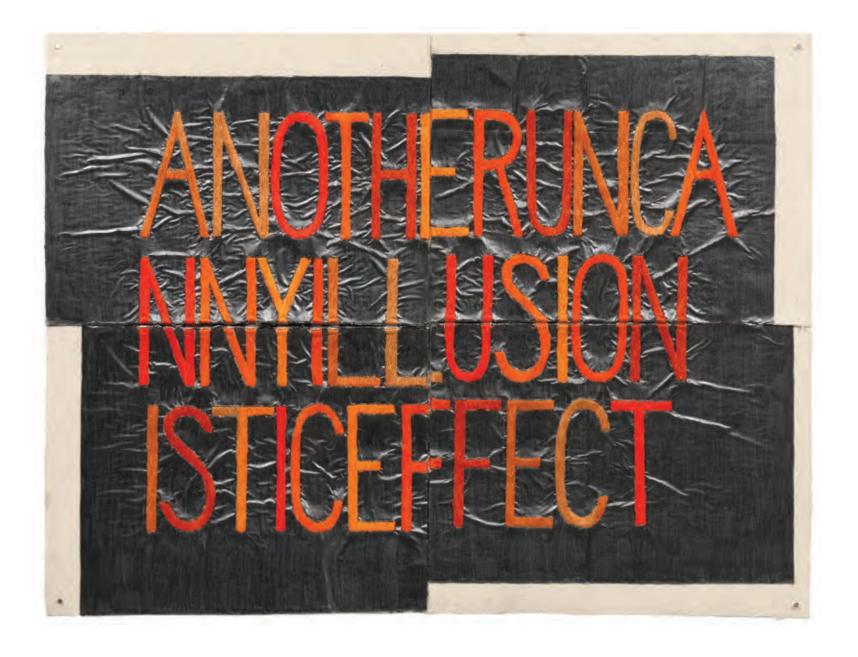
Fred Sandback installing his work at Dia:Beacon in February.

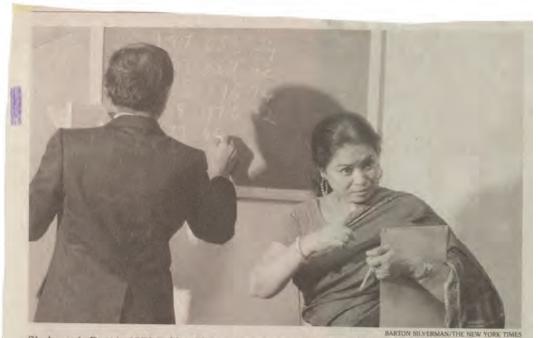
Creating complex effects with simple

back. In 1968, while still a student at Yale, he had his first two solo exhibitions, both in Germany. One was at the Munich gallery of Heiner Friedrich, who helped create the Dia Art Foundation in New York in 1974. Mr. Sandback was one of a small group of avant garde artists sponsored by the Dia Center for the Arts. Like several of them, Mr. Sandback opened a Dia-financed institution dedicated to his own work, the Fred Sandback Museum, Housed in a former bank building in Winchendon, Mass., not far from his studio in Rindge, N.H., the museum operated from 1981 until 1996, when the artist decided to close it. Works by Mr. Sandback are included in a current major exhibition at Dia: Beacon, the recently opened museum of contemporary art in Beacon, N.Y.

In addition to his wife, Mr. Sandback is survived by two children from a previous marriage, Peter Sandback of Hancock, N.H., and Annika Sandback of Hoboken, and two grandchildren.

GIVE TO THE FRESH AIR FUND





Shakuntala Devi in 1976 in New York demonstrating her ability to do complex math problems.

# Shakuntala Devi, 83, 'Human Computer'

#### By HARESH PANDYA

Shakuntala Devi, an Indian mathematical wizard known as "the human computer" for her ability to make incredibly swift calculations, died on Sunday in Bangalore, India. She was 83. The cause was respiratory and cardiac problems, said D. C. Shivadev, a trustee of the Shakuntala Devi Educational Foundation Public Trust.

Ms. Devi demonstrated her mathematical gifts around the cus, and later in road shows arworld, at colleges, in theaters and 🗢 on radio and television. In 1977, at Southern Methodist University in winner of my family, and the re-Dallas, she extracted the 23rd sponsibility was a huge one for a root of a 201-digit number in 50 young child," she once said. "At Seconds, beating a Univac computer, which took 62 seconds.

plied two 13-digit numbers in only of my marathon of public per-28 seconds at the Imperial Col-lege in London. The feat, which She toure earned her a place in the 1982 edi-3 tion of the Guinness Book of her answer to a difficult calcula-World Records, was even more to a difficult calcula-tion was different from the inremarkable because it included terviewer's. It turned out that the time to recite the 26-digit so- she was right. Similarly, at the lution.

(The numbers, selected at ran- answers to a problem was found dom by a computer, were to be wrong, until the experts re-7,686,369,774,870 and examined their own calculations.

7 18,947,668,177,995,426,462,773,730.) New York in 1976, an article in

Bangalore on Nov. 4, 1929. Her fa- her abilities: "She could give you ther was a trapeze artist and lion the cube root of 188,132,517 - or

tamer in a circus. Survivors in- almost any other number - in clude a daughter and two grand- the time it took to ask the queschildren.

discovered that she was a mathe- on. matical prodigy with an uncanny ability to memorize numbers. By the time she was 5, she had become an expert at solving math problems.

Ms. Devi won fame demonstrating her math skills at the cirranged by her father.

"I had become the sole breadthe age of 6, I gave my first major show at the University of My-In 1980, she correctly multi- sore, and this was the beginning

She toured Europe in 1950. When she appeared on the BBC, University of Rome, one of her 2,465,099,745,779. The answer was When Ms. Devi performed in

Shakuntala Devi was born in The New York Times marveled at

NVT Friday April 26 2013 p. B.15

tion. If you gave her any date in She was about 3 and playing the last century, she would tell cards with her father when he you what day of the week it fell

In a 1990 journal article about Ms. Devi, Arthur R. Jensen, a researcher on human intelligence at the University of California, Berkeley, noted that unlike the Dustin Hoffman character in the movie "Rain Man," an autistic savant who was also a mathematical prodigy, "Devi comes across as alert, extroverted, affable and articulate."

He posited that for Ms. Devi, "the manipulation of numbers is apparently like a native language, whereas for most of us arithmetic calculation is at best like the foreign language we learned in school." But he added that she built on her inherent skills through intense practice as a child.

Ms. Devi was also a successful astrologer, cookbook author and novelist.

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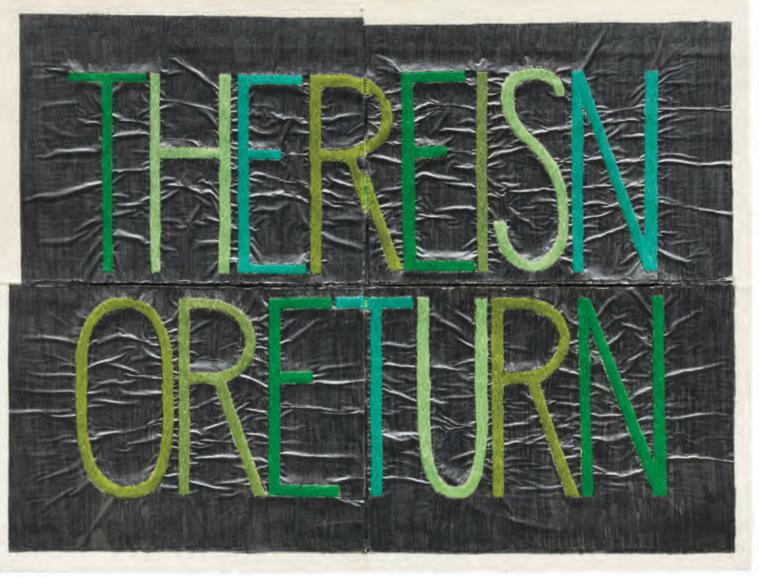


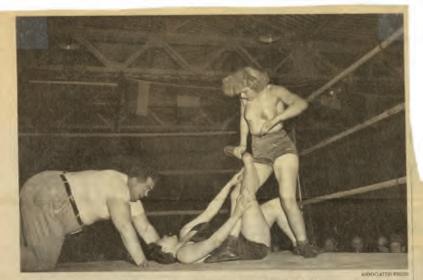
### Jacob Bekenstein, Physicist, Dies at 68; **Revolutionized the Study of Black Holes**

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B7





Mae Young, upright, in a 1943 wrestling match versus Mae Weston. Tiny Basque was the referee.

### Mae Young, 90, Who Loved to Be Hated

#### By WILLIAM YARDLEY

Mae Young — make that the Great Mae Young — who pulled hair and took cheap shots, who preferred actually fighting to pre-tending, who was, by her own account and that of many other fe-male wrestlers, the greatest and dirtiest of them all, died on Tues-day in Columbia, S.C. She was 90, and her last round in the ring was in 2010.

Her death was confirmed by World Wrestling Entertainment. "She just was a rough, tough broad," Ella Waldek, another ear-

broad," Ella Waidek, another car-ly wrestler, who died last year, once put it. Stories of her fierceness fol-lowed Ms. Young into her first professional match. In 1939. Ske had learned to wrestle with boys on her high school team in Okla-huma and learned forthall with the school team in Okla-huma and learned to wrestle with boys on her high school team in Okla-huma and learned to wrestle with boys on her high school team in Okla-huma and learned to wrestle with boys on her high school team in Okla-huma and learned to wrestle with boys on her high school team in Okla-huma and learned to wrestle with boys on her high school team in Okla-huma and learned to wrestle with boys on her high school team in Okla-huma and learned to wrestle with boys on her high school team in Okla-

'I've always been a heel,' Young said in a film, 'and I wouldn't be anything else but.'

else but." Before thongs and silicone and spray tans made women's wres-ting the overtly sexualized spec-tacle now orchestrated by W.W.E., Ms. Young was among the most famous in a colorful cast of women who first rose to promi-nence in the 1940s, in part be-cause World War II reduced the number of men who wrestled

Young, left, with the Fabulous

her titles.

mite: The First Ladies of Wres-ting," a 2004 documentary. "They don't have to do nothing. It's the heel that carries the whole show. I've always been a heel, and I wouldn't be anything eise but." Before thongs and silicone and

Miss Royal Rumble Bikim Con-Miss Royal Rumble Bikim Con-test, defeating women 50 years younger after removing the top of her bathing suit. In 2004, she was inducted into the Profession-al Wrestling Hall of Fame. In 2008, she was elected to the W.W.E. Hall of Fame. Mary Ann Kostecki, an early wrestler who went by the name

Penny Banner, recalled meeting

Ms. Young. "She had men's shoes on, men's pants on, with the zipper up the front, a cigar hanging out of her mouth," Ms. Rostecki said. "Back in 1954, you didn't do that."

Johnnie Mae Young was born on March 12, 1923, in Sand Springs, Okla., the youngest of eight children. Her father left the family when she was young. By the 1940s she was traveling inon her high school team in Okta-homa, and played foothall with them, too. In professionial wrestling, there are baby faces and heels, and she never doubted which one she crowds loved to hate her. Or-

would be. 'Anybody can be a baby face, what we call a clean wrestler," she said in "Lipstick & Dyna-the said in "Lipstick & Dyna-imidated by her techniques and throw, Other wrestlers were in-timidated by her techniques and throw, Difference of the said promoter. Information on survivors was not immediately available. For several decades, Ms. Young lived with Ms. Ellison and other older where Ms. Fillison who was sho throw. Other wrestlers were in-timidated by her techniques and her titles. where Ms. Ellison, who was also a successful promoter, trained

her titles. By the late 1960s, she had be-come the National Wrestling Alli-ance's first national women's champion. In the late 1990s, W.W.E. hired her and her long-time friend Lillian Ellison, better whom she had trained. Ms. Young fought much young-Ms. Young fought fought fought fought fought fought fought fought fought

NYT Jan 18, 2019 p. A18



### ORTS TUESDAY, MARCH 8, 2016

18.19 OBITUARIES

# Raymond Tomlinson Is Dead at 74; He Put the @ in Email Addresses

By WILLIAM GRIMES

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NYT, March 8, 2016, Raymond Tomlinson, 2017

Canvas, paper, embroidery floss, and graphite; 15 x 20 inches



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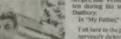


ANT DANIEL J. BLARIGAN. 1925-2010

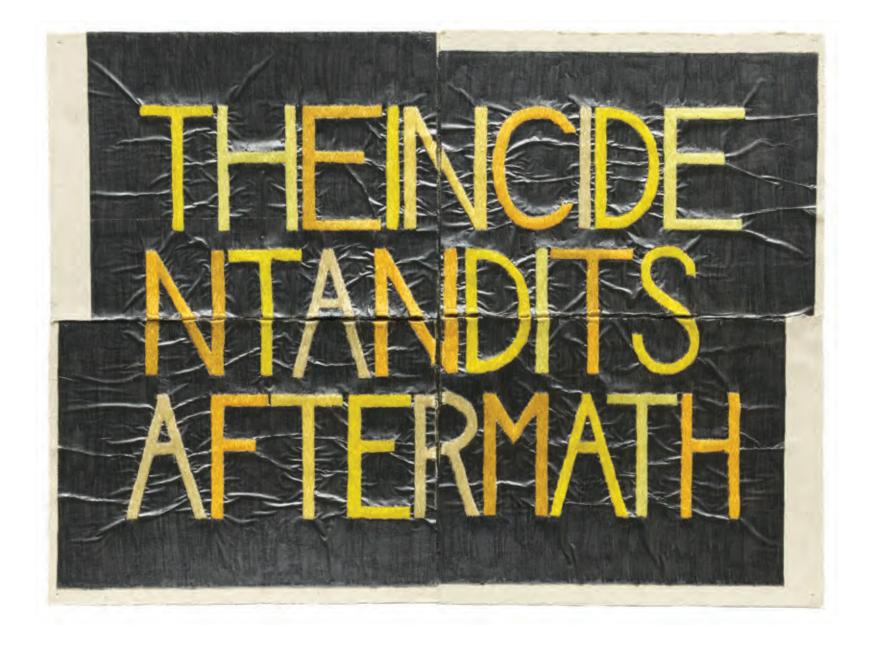
Antiwar Priest Preached Peace And Defiance



New York in 1972. He fr







# Luis Posada Carriles, 90, Anti-Castro Warrior, Dies

By FRANCES ROBLES

Luis Posada Carriles, the anti-Castro militant and former C.I.A. operative who made headlines for decades for his failed attempts to topple the Cuban dictator, died on Wednesday in Miramar, Fla., He was 90.

The cause was fluid in his lungs and complications of a stroke he had in 2015, his daughter, Janet Arguello, said.

Mr. Posada spent nearly 60 years on a quixotic and often bloody mission to bring down Fidel Castro by any means possible. He was accused of using bombs and bullets in a crusade that took the lives of innocents but never did manage to snare that Cuban leader, who died at 90 in 2016.

Mr. Posada hopped from coun-try to country, finding refuge in jungles, arming rebels, surviving stints in prison and living on the run off the largess of Cuban exile supporters, then dying a free man at a home for aging military veter-

"My old tired heart has made enough rounds," Mr. Posada said in a jailhouse interview with The Miami Herald in Panama in 2003. I'm going to eat my steak, drink my wine and struggle for my country. That will be my life's end.'

But others saw it differently. "He was an international ter-rorist of the first order," said Peter Kornbluh, the director of the Cuba Documentation Project at the National Security Archive, who spent decades collecting declassified documents on Mr. Posada's ventures.

Luis Posada Carriles was born on Feb. 15, 1928, in Cienfuegos, in central Cuba, one of four children. His father owned a bookstore and

printing press. Mr. Posada attended the University of Havana, a few years be-hind Fidel Castro there. He worked for a time at the Firestone Tire and Rubber Company, first in Havana and then in Akron, Ohio.

By 1960, Mr. Posada had a prison record in Cuba for anti-Castro activities and was soon working for the Central Intelligence Agency. He almost participated in the Bay of Pigs invasion in 1961, but the mission, a C.I.A.-backed operation, failed disastrously before his plane could take off and take him to Cuba to join fellow Cuban-exile guerrillas there. He lat-er joined the Venezuelan intelligence service, where the Cuban government media said his job

was to be a "C.I.A. mercenary." One of the deadliest events linked to Mr. Posada came in 1976. when a Cubana de Aviación flight exploded off the coast of Barbados, killing all 73 people aboard, including teenagers from Cuba's national fencing team. A November 1976 F.B.I. report





obtained by the National Security Archive showed that a trusted in formant had placed Mr. Posada at two meetings where the bombing was plotted.

Living in Venezuela at the time of the attack, Mr. Posada was tried before a military tribune but acquitted. He remained in prison while prosecutors appealed the ruling, seeking to take the case to a civilian court. But disguising himself as a priest, he escaped.

Mr. Posada always insisted that he was innocent of the airplane bombing - what he called "an nable deed."

He ended up spending nine years in prison in Venezuela.

"My memories of him are of being a 5- or 6-year-old and visiting him in jail," Ms. Arguello said, add ing that she saw little of her father in the decades that followed. That was the life he chose,"

Mr. Posada's next stop was El Salvador, where he participated in the covert Iran-contra affair, in which the Reagan administration secretly sold arms to Iran and used the proceeds to help rebel forces in Nicaragua, or contras. Mr. Posada served as a quartermaster for the rebels. While in Guatemala in 1990 he

Luis Posada Carriles, at left in 1976. Above in the foreground, he greeted supporters in 2011 after a federal jury in El Paso, Tex., acquitted him of charges of lying to U.S. officials to gain asylum.

ban intelligence operatives; the bullets grazed his <u>heart and</u> tongue and left him with a severe speech impairment In an interview with The New

York Times in 1998, Mr. Posada was quoted as acknowledging hat he had organized a string of notel bombings in Havana that left one Italian tourist dead and 12 people wounded. He later said he that had been misquoted, and that all he had done was publicize the

hombings Mr. Posada stayed on the run before reappearing in 2000 in Pan-ama. Mr. Castro, who was in Panama for a presidential summit, stunned the world when he an-

### Linked to bombings and plots in a quixotic 60-year mission.

nounced at a news conference that his old foe was in town, trying to kill him. Shortly afterward, Mr. Posada and a group of comrades with terrorism-related records were arrested in Panama City with C4 explosives. Mr. Posada was sentenced to

eight years in prison, but the pres-ident, Mireya Moscoso, in her last week in office, pardoned him in 2004. He showed up in the United States a few months later. "He had that magnetic quality to him that I'm sure explains how

he was able to survive all those

was shot - he presumed by Cu- years," said Mr. Posada's lawyer, Arturo V. Hernandez. "He was able to establish alliances to help him. You can't do that if everybody

hates you. Exiles sent him money, and they bought his paintings to help him survive. (He had learned how to paint in prison.) They paid bribes to sneak him out of jails and countries and into others.

"He was a charmer," said Santiago Alvarez, a longtime Miami activist who has served time in prison for his anti-Castro efforts. "He had stories for everything. He made you laugh. He was good compa

Federal prosecutors said it was Mr. Alvarez who sneaked Mr. Po-sada back into the United States in 2005, but both men denied that.

Mr. Posada was charged with lying to the immigration authori-ties about the bombings and how he had entered the country, but was acquitted in 2011.

A judge ruled that Mr. Posada could not be returned to Cuba or Venezuela, the two countries that eagerly sought his return. So Mr. Posada stayed in South Florida, where he remained estranged from his wife, Nieves, their daughter and a son, Jorge. They survive him. Complete information on survivors was not immediately avail-

"I think I did what I had to do," Mr. Posada said in the jailhouse in-terview with The Herald, in which he renounced terrorism, though he said that he still longed to stomp Mr. Castro "like a cock-roach."

"I'm doing what I have to do as a Cuban patriot."



### NYT JUNE 5,2019 Louis Levi Oakes, 94, the Last Of the Mohawk Code Talkers

By DANIEL E. SLOTNIK

18

Louis Levi Oakes, the last of the Mohawk code talkers, who helped American soldiers triumph in the Pacific Theater during World War II, along with code talkers from other tribes, died on May 28 at a care facility near his home on the Akwesasne Mohawk Reservation in Quebec. He was 94. The death was confirmed by his

granddaughter Teresa Oakes. The code talkers, a group of several hundred soldiers, used their indigenous languages to create

impenetrable ciphers as a way of securely relaying vital informa-tion on the battlefield. Most of them were Navajos, more than 400 of whom participated in an ex- Louis Levi Oakes was a technitensive Marine Corps program. But code talkers from other

tribes, including the Hopi, Coman-che and Mohawk, also played a rule. Mr. Oakes was one of about Helping Allied forces 24 from the Mohawk tribe, whose lands are mostly in upstate New York and Canada

David A. Hatch, the National Security Agency's senior histori-an, said in an interview on Tuesday that about 30 indigenous lan-guages were used in battle and that about 10, including Mohawk, became the basis for more compli-

Mr. Oakes, who was a technician fourth grade in the Army and served in New Guinea, the Philippines and the South Pacific, never spoke much about his serv-

"All he ever told us was that they gave him a piece of paper and said, 'Say this in Mohawk to somebody else on the line,' and he just did what he was told," his granddaughter said.

Louis Levi Oakes was born on Jan. 23, 1925, in St. Regis, Quebec, to Angus and Mary (Porke) Oakes. His Mohawk name was code talkers, said Hope MacDon-Tahakietakwa, which his grand-, ald Lone Tree, a staff assistant to

Aughter said roughly translates as "He carries the snow." He went to high school on the reservation and enlisted at 18. He trained at Fort Drum in upstate New York before moving ita base New York before moving to a base in Louisiana, where he became a Medal for his service. By then he in Louisiana, where he became a code talker after Army officials was the last living Mohawk code learned he was fluent in Mohawk. talker. Last December, he aphe returned to the reservation and Commons and met with Prime would travel to Buffalo for jobs as Minister Justin Trudeau. an ironworker. He married Anna- In addition to his granddaughbelle Mitchell, who was also a Mo-hawk, in the late 1940s, and later joined the reservation's public Dora and Debra Oakes; four sons, works department.

grounds have not been as well great grandchildren. His wife died documented as those of the Nava- in 2012.



B15

cian fourth grade in the Army during World War II.

### prevail, but rarely speaking about it.

jo, and less has been known about their contributions to the war effort, although that is changing,

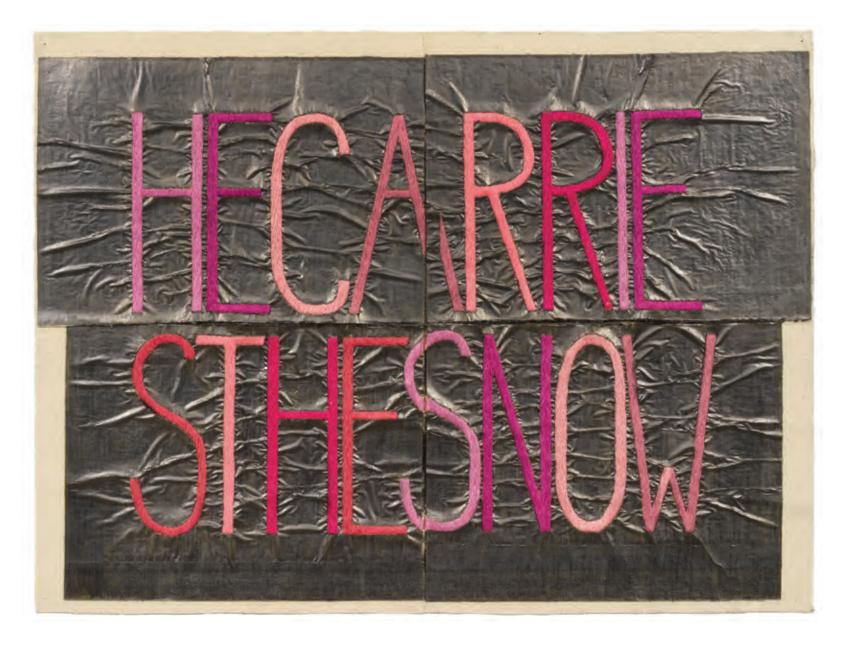
became the basis for more compli-cated codes, in which traditional words or phrases became meta-phors for matériel. The word for "turtle," for instance, might be used for tank. Mr. Hatch said. The code talker program was not fully declassified until 1968, and even then it took decades for "burdle," for instance, might be used for tank. ice has since been chronicled in . ... books and in the 2002 film :# "Windtalkers," which starred Adam Beach and Nicolas Cage. Adam Beach and Nicolas Cage. The code talkers also inspired a G.I. Joe action figure, which speaks in both English and Nava-jo.

In 2001, President George W. Bush presented the 29 creators of H sional Gold Medal, most of them posthumously. Chester Nez, the last of that group, died in 2014.

There are five surviving Navajo

Honorably discharged in 1946, peared at the Canadian House of

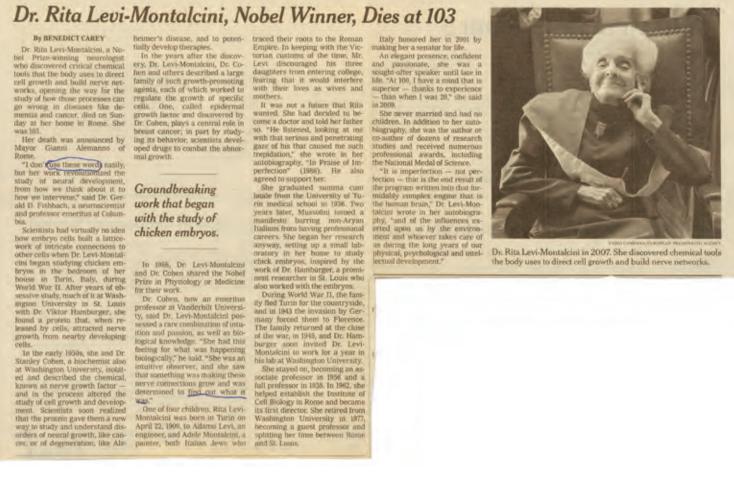
Louis, Raymond, Wallace and Jo-The efforts of code talkers from other Native American back-great-grandchildren and great-



#### 11.1 73.752 5.757.7 13 USE THESE WORDS

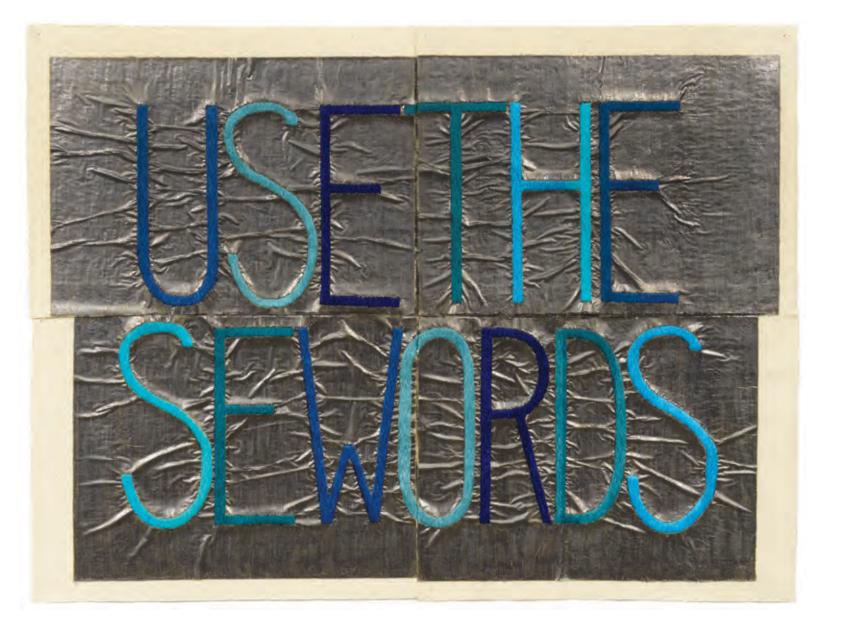
THE NEW YORK TIMES OBITUARIES MONDAY, DECEMBER 31, 2012

### Dr. Rita Levi-Montalcini, Nobel Winner, Dies at 103



.

A15



# BIZ NIT April 21,2012 Hillman Curtis, a Pioneer

In Web Design, Dies at 51

By PAUL VITELLO

### Player technology, then walked away.

a milestone that "hrought Web design to life". His ability to teach other Web designers, he added, helped "jump-start a process of Web democratization that contin-ues today."

<text><text><text><text><text><text><text><text><text>

Tratha



As a student at San Francisco State University, Mr. Curtis formed a rock group, later known as the Green Things, which toured for almost a decade and



### Imperative Shift

On Ten of Dianna Frid's Words from Obituaries by Alta L. Price

### TYPETHEMESSAGEIN•THEREISNORETURN•THEINCIDENTA NDITSAFTERMATH•THEGREATESTANDIRTIESTOFTHEMALL •HISLASTWEBSITE•INTHETIMEITTOOKTOASKTHEQUESTIO N•ANOTHERUNCANNYILLUSIONISTICEFFECT•EVERYBODY HATESYOU•HECARRIESTHESNOW•USETHESEWORDS

Walk through the door. Examine your field of vision. Choose a piece. Get closer. Try to decipher. Wonder whose life you have chosen. Pace, timing, and place can be everything. The work you're seeing has been deliberately slowed down. It is figuratively and literally drawn from longer texts—the printed obituaries are typography, these sewn works are lettering. Neither multiple nor mass-produced, they are both serial and unique. Even when repeated letters are traced over and over, they are then often split, sometimes vertically rent to fit the space at hand, and always striped in tints and shades of varying hues. What at first might look uniform, or like a strictly coordinated practice of categorization, soon grows more complex, messier, and wrinkled around the edges as the graphite on pierced paper puckers up, embellishing the embroidered letterforms.

The visual work on the preceding pages is text—textual, victual, ritual, actual, factual, contractual, conceptual, eventual, spiritual, virtual, accentual, effectual, intellectual, habitual, perceptual, perpetual. Two nouns plus fourteen adjectives minus several ambiguities equals hmmm. You can try to sort it out, but perhaps this puzzle prefers to remain unsolved.

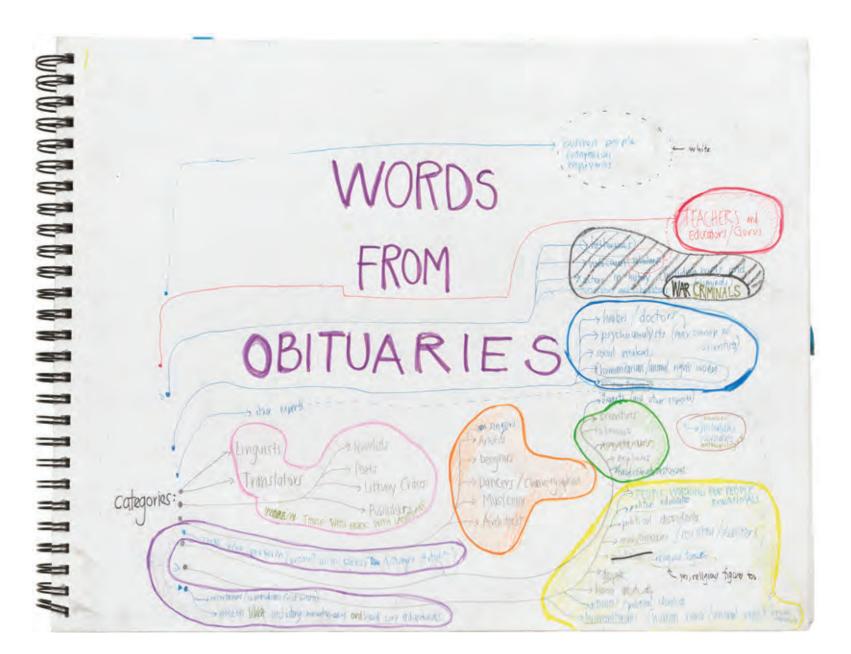
At first my eye catches specific letters, then it assembles a word here and there, in a repeatedly foiled attempt at decoding a set phrase; finally, I see it. Sometimes it comes in the form of a command: type the message in; use these words. Sometimes it's a straight observation: there is no return; everybody hates you; he carries the snow. Sometimes it's a caption or description: the incident and its aftermath; the greatest and dirtiest of them all; his last website; another uncanny illusionistic effect. And sometimes it's a cliffhanger: in the time it took to ask the question .... And now I'm asking so many questions, and getting lots of

And now I'm asking so many questions, and getting lots of answers, but not all the answers. Let's take the cliffhanger as an example. Who? "Shakuntala Devi, 83, 'Human Computer'." What? "She could give you the cube root of 188,132,517—or almost any other number—in the time it took to ask the question." Where? "In Bangalore, India." When? "On Sunday" (April 22, 2013). How? "Through intense practice as a child." Why? I dare you to try and answer this one.

These are distillations, more than redactions. They result from a process of finding, extracting, and then transcribing and rewriting the words. Each step is a transformation. It's a distinction as nuanced as the colors now floating before us, forming quandaries, indicating a life's work, on shiny quadrants of steely grey. What are these colors? Maybe they're synesthetic biographies, maybe they're latent prose poems, maybe a rainbow reconfigured. How are these colors? Primary, secondary, and tertiary, perhaps they're also arbitrary, honorary, or just plain wary. Their existence springs from functional, idiosyncratic classifications determined by the artist's own rubric. They implicitly point to the absurdity of categorization and its inevitable tendency to omit the essential: esteemed or infamous, no specific life can ever be reduced to a single story; no single, easy explanation can be teased out of an ambitious, polyvalent work of art.

Turning to consider the graphite installations in her Evidence of the Material World series—related to, yet not part of, the Words from Obituaries series—I'm reminded of the artist's "commitment to ephemerality." *Ars longa, vita brevis*: the supposed permanence of art and the incontrovertibly fleeting nature of life are reflected back at us here, with vibrant bits of meaning punching through the darkness to jump out at our eyes, tease our minds, and set the gears of meaning into motion.

Returning to the basic questions: Who? You and me and Dianna Frid. What? These pieces, these phrases, these lives. Where? Alan Koppel Gallery, Chicago. When? Friday, September 13, to Friday, November 15, 2019. How? By distillation, intense practice, and a miracle. Why? Let's let you answer this time.



## Checklist

On the occasion of the exhibition *More Time than Life*, September 13–November 15, 2019. All artworks by Dianna Frid.

NYT, June 26, 2003, Fred Sandback, 2014 Canvas, paper, embroidery floss, and graphite; 15 x 20 ind

NYT, April 26, 2013, Shakuntala Devi, 2014 Canvas, paper, embroidery floss, and graphite; 15 x 20 inches

NYT, August 22, 2015, Jacob Bekenstein, 2014 Canvas, paper, embroidery floss, and graphite; 15 x 20 inches

NYT, January 28, 2014, Mae Young, 2016 Canvas, paper, embroidery floss, and graphite; 15 x 20 inches

NYT, March 8, 2016, Raymond Tomlinson, 2017 Canvas, paper, embroidery floss, and graphite; 15 x 20 inches

NYT, May 1, 2016, Daniel J. Berrigan, 2016 Canvas, paper, embroidery floss, and graphite; 15 x 20 inches

NYT, May 24, 2018, Luis Posada Carriles, 2018 Canvas, paper, embroidery floss, and graphite; 15 x 20 inches

NYT, June 5, 2019, Louis Levi Oakes, 2019 Canvas, paper, embroidery floss, and graphite; 15 x 20 inches

NYT, December 31, 2012, Dr. Rita Levi-Montalcini, 2019 Canvas, paper, embroidery floss, and graphite; 15 x 20 inches

NYT, April 21, 2012, Hillman Curtis, 2012 Canvas, paper, embroidery floss, and graphite; 15 x 20 inches

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### THE NEW YORK TIMES OBITUARIES SATURDAY, AUGUST 22

# Jacob Bekenstein, Physicist, Dies at 68; **Revolutionized the Study of Black Holes**

#### By DENNIS OVERBYE

Jacob Bekenstein, a physicist who prevailed in an argument with Stephen Hawking that revolutionized the study of black holes, and indeed the nature of space-time itself, died on Sunday in Helsinki, Finland, where he was to give a physics lecture. He was 68.

The cause was a heart attack, said the Hebrew University of Jerusalem, where Dr. Bekenstein was the Michael Polak professor emeritus of theoretical physics.

Dr. Bekenstein's greatest achievement came in the early 1970s, when he was a graduate student at Princeton and got into a feud with Dr. Hawking, the celebrated physicist and expert on black holes.

Black holes are the prima donnas of Einstein's general theory of relativity, which predicts that space wraps itself completely around some object, causing it to disappear as a black hole. Dr. Bekenstein suggested in his Ph.D. thesis that the black hole's entropy, a measure of the disorder or wasted energy in a system, was proportional to the area of a black hole's event horizon, the spherical surface in space from which there is no return, According to accepted physical laws, including Dr. Hawking's own work, neither entropy nor the area of a black hole could ever decrease.

Raphael Bousso, of the University of California, Berkeley, who was both a student of Dr. Hawking's and a friend of Dr. Bekenstein's, called Dr. Bekenstein's proposition "among the most daring, yet elegant, arguments that I've seen in physics."

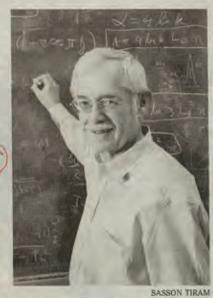
Dr. Hawking denounced the idea. According to classical physics, anything with entropy had to have a temperature, and anything with a temperature - from a fevered brow to a star - must radiate heat and light with a characteristic spectrum. But a black hole could not radiate, and thus it could have no temperature and therefore no entropy.

Or so everybody thought until 1974, when Dr. Hawking did a prodigious calculation including quantum theory, the strange rules that govern the subatomic was shocked to find

black hole, indicating that it was not so black after all.

Afraid he had made a mistake, Dr. Hawking, as he wrote in his book "A Brief History of Time," kept his calculation quiet at first. "I was afraid," he said, "that if Bekenstein found out about it, he would use it as a further argument to support his ideas about the entropy of black holes, which I still did not like."

He was finally convinced, Dr.



A Bekenstein theory won over a skeptical Stephen Hawking.

Hawking wrote, when he recognized that the radiation from the black hole would have the same characteristic heat spectrum as heat, just as Dr. Bekenstein's theory had implied.

Today it is called Bekenstein-Hawking radiation, and its discovery is considered a landmark in the quest, so far unfinished, to fulfill the Einsteinian dream of a unified theory of both the gravity that bends the cosmos and the quantum chaos that lives inside of it, so-called quantum gravity.

Dr. Bekenstein received the Wolf Prize in 2012 and the American Physical Society's Einstein prize this year. Both have often been precursors to the Nobel Prize. (The Nobel is not awarded posthumously.)

Lee Smolin, a theorist at the said "No result in theoretical

particles coming away from the physics has been more fundamental or influential than his discovery that black holes have entropy proportional to their surface area

> Dr. Bousso called Dr. Bekenstein "one of the very few giants in the field of quantum gravity."

> Jacob David Bekenstein was born in Mexico City on May 1, 1947, to Joseph Bekenstein, a carpenter, and the former Esther Vladaslavotsky, a homemaker. Jewish immigrants from Poland, they had met in Mexico during World War II.

Inspired by the launch of the Russian satellite Sputnik in 1957, Jacob and his friends gathered after school to launch rockets.

He became an American citizen in 1968 while attending the Polytechnic University of Brooklyn, now part of New York University, from which he graduated in 1969. He maintained American and Israeli citizenship.

He went on to graduate school at Princeton, gaining a Ph.D. in 1972 under John Wheeler, the teacher and visionary who popularized the term black hole.

After a postdoctoral stint at the University of Texas at Austin, Dr. Bekenstein moved to the Ben-Gurion University of the Negev in Beersheba, where he eventually became chairman of the astrophysics department. In 1990 he joined the faculty of the Hebrew University of Jerusalem.

He is survived by his wife, Bilha Bekenstein; three children, Yehonadav, Uriya and Rivka Bekenstein, all of them scientists; his sister, Bella; and six grandchildren.

It was in his doctoral thesis in 1972 that Dr. Bekenstein made his gravity.' breakthrough

As both he and Dr. Wheeler later recalled, it all started over tea. What, Dr. Wheeler asked his student, would happen if you poured a hot cup of tea into a black hole?

If the hot tea went into a black hole, it would take its heat and entropy with it, causing its entropy to disappear from the uniyerse, because black holes, according to the prevailing view, were not allowed to have temperature or entropy. That meant Perimeter Institute for Theoret- the entropy of the universe would ical Physics in Waterloo, Ontario, decrease, going against the sec- up." and law of thermodynamics one



Jacob Bekenstein, third from for a Nobel, with recipients in

of the pillars of physics and one of the great pessimistic statement of civilization.

The law decrees that entrop or disorder always increases in closed system, like a car engin or the universe. Whatever yo do, you always waste a little ene gy that cannot be retrieved. Th

Considered 'one of the very few giants in the field of quantum

means, among other things, th perpetual-motion machines a impossible.

"So either the second law thermodynamics is irrelevant it isn't working," Dr. Bekenste told an interviewer from the we site Haaretz.com in 2012. Th was a serious consequence for law of physics that had serve well for 150 years. "I tried to fin a way to save it and fix thin

His solution was to attribu