

ROCKY FEST



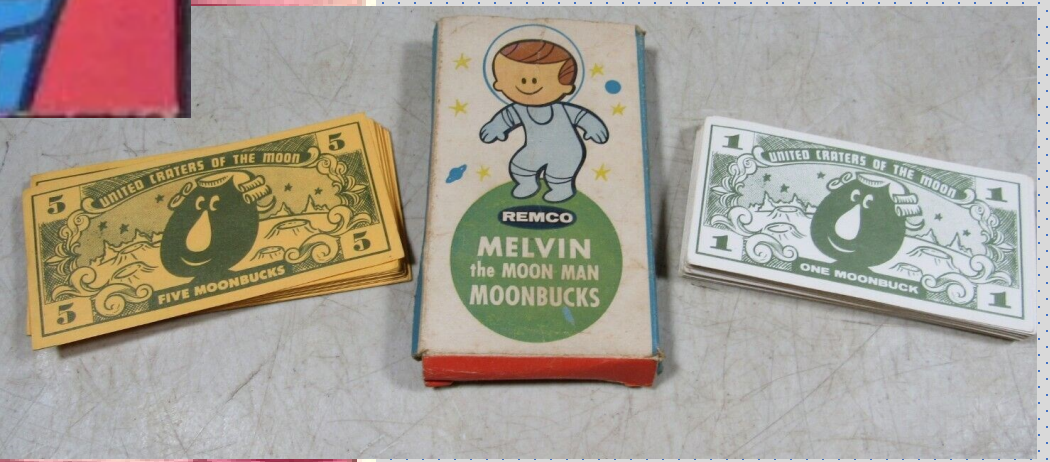
The after dinner roast
March 18, 2023
Malibu Mike



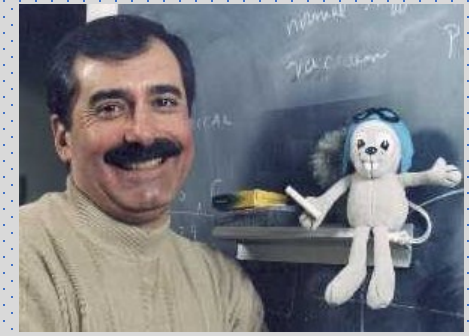
The Rocky Statue
Sunset Blvd
Hollywood, CA

Son of Dorothy and Edward Kolb, born
October 2nd 1951 in New Orleans





Where did that name come from?



- Kolb (to AIP): It was the first name I remember having and I asked my parents, "Where did I get this name?" And they said, "Well, when you were three years old, one day you said 'From now on, my name is Rocky. I won't answer to any other name.'" And I said, "Well, where did I get that?" They didn't know and I certainly don't remember. But my kindergarten graduation certificate says "Rocky". So, you know, there's some physical evidence that it goes back at least that far.

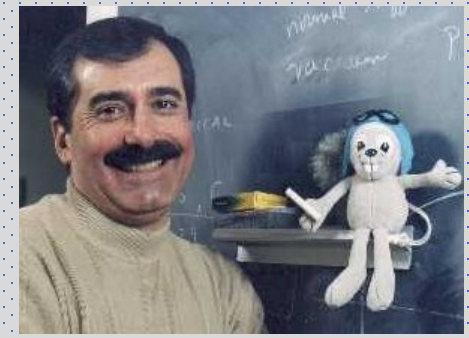


- The show was broadcast for the first time on November 19, 1959, on the [ABC](#) television network under the title *Rocky and His Friends* twice a week, on Tuesday and Thursday afternoons, following [American Bandstand](#) at 5:30 p.m.
- Rocky's personality was meant to be that of an upstanding, if slightly naive, all-American youth. As the brains and [straight man](#) of the "moose and squirrel" duo, Rocky often was shown as coming up with creative solutions to the various situations the duo found themselves in on their adventures.

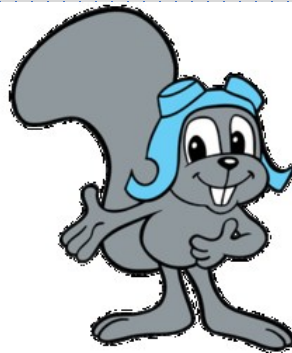


Hmmm.

- Kolb (to AIP): It was the first name I remember having and I asked my parents, "Where did I get this name?" And they said, "Well, when you were three years old (1954), one day you said 'From now on, my name is Rocky. I won't answer to any other name.'" And I said, "Well, where did I get that?" They didn't know and I certainly don't remember. But my kindergarten graduation certificate (1955) says "Rocky". So, you know, there's some physical evidence that it goes back at least that far.



- The show was broadcast for the first time on **November 19, 1959**, on the [ABC](#) television network under the title *Rocky and His Friends* twice a week, on Tuesday and Thursday afternoons, following [American Bandstand](#) at 5:30 p.m.
- Rocky's personality was meant to be that of an upstanding, if slightly naive, all-American youth. As the brains and [straight man](#) of the "moose and squirrel" duo, Rocky often was shown as coming up with creative solutions to the various situations the duo found themselves in on their adventures.



Alternative hypothesis: another famous Rocky

- **Thomas Rocco Barbella** (January 1, 1919 – May 22, 1990), better known as **Rocky Graziano**, was an American professional boxer and actor who held the World Middleweight title. Graziano is considered one of the greatest knockout artists in boxing history, often displaying the capacity to take his opponent out with a single punch. He was ranked 23rd on [The Ring](#) magazine list of the greatest punchers of all time. He fought many of the best middleweights of the era including [Sugar Ray Robinson](#). His turbulent and violent life story was the basis of the 1956 [Oscar](#)-winning [drama film](#), [Somebody Up There Likes Me](#), based on his 1955 autobiography of the same title.
- Likely to have been known by the Dominican nuns who schooled little Edward!

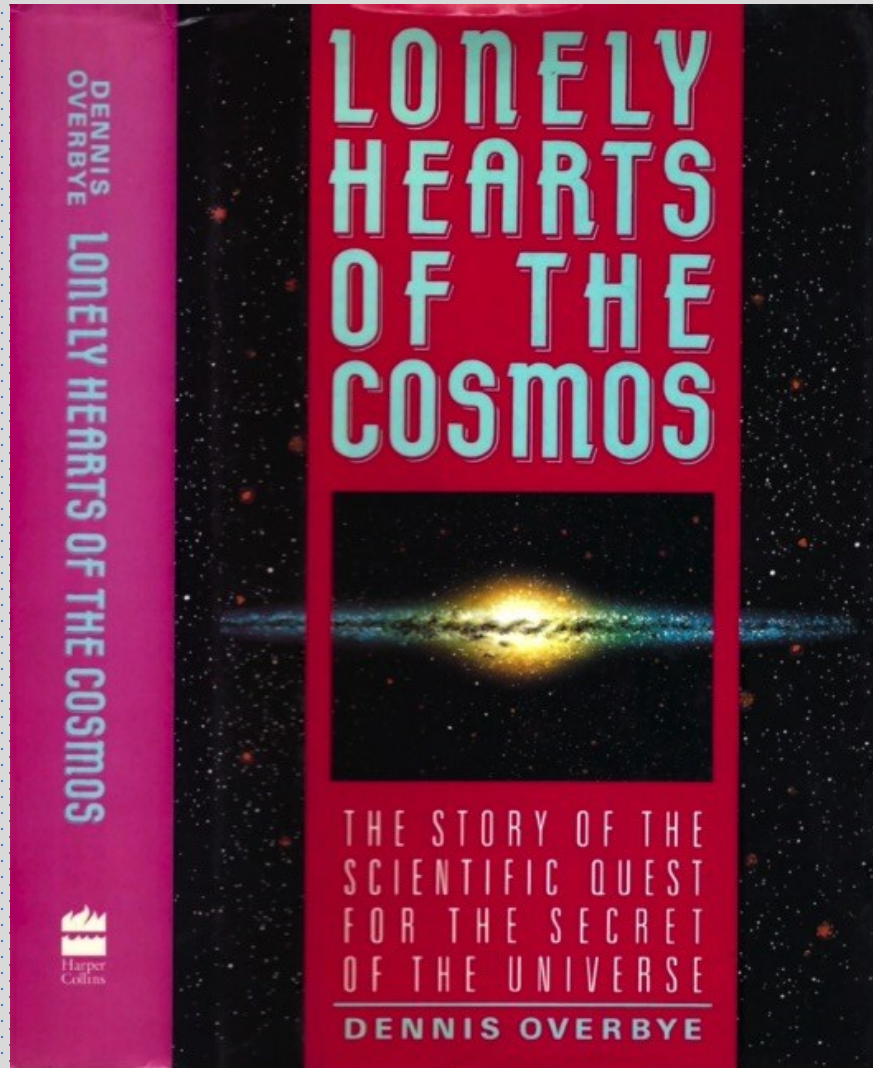


Alternative hypothesis 2: another famous Rocky

- **Rocco Francis Marchegiano** (September 1, 1923 – August 31, 1969; Italian pronunciation: [\[markeˈdʒaːno\]](#)), better known as **Rocky Marciano** ([/məˈrʃiːɑːnoʊ/](#), Italian: [\[marˈtʃaːno\]](#)), was an American [professional boxer](#) who competed from 1947 to 1955, and held the world [heavyweight](#) title from 1952 to 1956. He is the only heavyweight champion to have [finished his career undefeated](#).^[4] His six title defenses were against [Jersey Joe Walcott](#) (from whom he had taken the title), [Roland La Starza](#), [Ezzard Charles](#) (twice), [Don Cockell](#) and [Archie Moore](#). Known for his [relentless fighting style](#), formidable [punching power](#), stamina, and exceptionally durable [chin](#), Marciano is considered one of the greatest heavyweight boxers of all time.^[5] Marciano remains the only fighter to have [stopped every opponent he ever faced](#) for the world heavyweight title, and shares, with [Joe Louis](#), the highest [knockout](#)-to-win percentage in world heavyweight title fights at 85.71%.^[6] His career knockout-to-win percentage of 87.8% remains one of the highest in heavyweight boxing history. Marciano is ranked #14 in *The Ring* magazine's list of the 100 greatest punchers of all time.^[7]
- Likely to have been known by the Dominican nuns who schooled little Edward!



More evidence for the alternative hypothesis



athletic than the average run-of-the-mill scientific group? Was it my imagination, or did there seem to be more women among the graduate students at Chicago than elsewhere? I began to think of Chicago as the jock school of astrophysics.

Sometimes they acted that way; Chicago-style astrophysics could be tough physically as well as mentally. The Chicago Texas Symposium in 1986 was a case in point. Toward the end of the traditional banquet in the ballroom of the downtown Holiday Inn, I noticed that food was flying around the table occupied by the Chicago people. Soon hard rolls were careening on rainbow trajectories across the ornate spaces. The chief launcher, with a devil-may-care grin on his face, was Kolb. One of his missiles whizzed past my ear. Another hit Steigman, about a hundred feet away at another table, right on the nose, knocking off his glasses.

Shortly thereafter, outside in the lobby, Steigman accosted Kolb, grabbing him by the lapels and demanding an apology. Kolb, resisting, didn't seem to comprehend that Steigman was serious—he had been offended. Watching them, I thought of Steigman declining Bronx Science because he had wanted to be “normal” and wondered if he'd had his glasses knocked off a lot as a kid in the Bronx. Suddenly these two six-footers were swinging each other around, scattering astronomers like duck-pins. They almost fell on top of me before they were separated, just as punches began to be coiled, and led away. A few minutes later Schramm

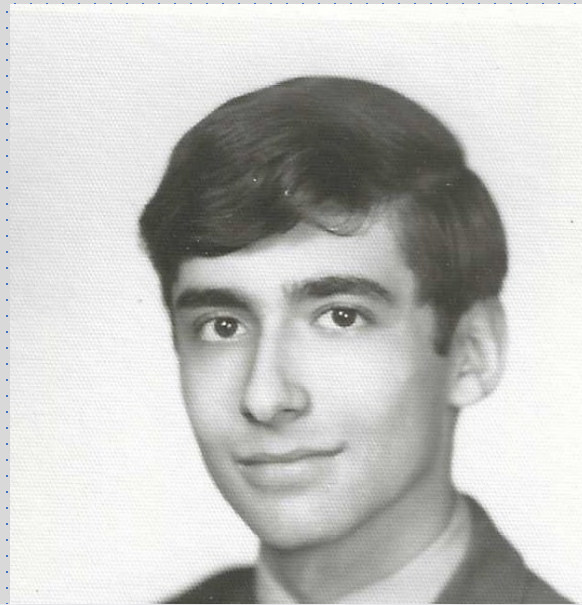
New, exculpatory evidence from Katie Freese

“I was at a table with Larry Sulak at the Texas in Chicago banquet. He egged me on to throw a piece of bread at another table (quite far from us so as to remain anonymous). I wasn't aiming at anyone in particular but I managed to hit Rocky, in the head. Rocky then threw something at Gary who was at the table next to him and knocked Gary's glasses off. Oh boy, I don't remember what Rocky threw. Probably also bread. At that point Gary jumped out of his chair and tried to punch Rocky. **It degenerated from there.**”



“The Roll”

Rocky graduated from Jesuit High School in New Orleans. To understand Rocky you have to understand the Jesuits – God's marines!



Let God Be the Judge:

A Franciscan and a Dominican were debating about whose order was the greater. After months of arguing, they decided to die. Years later, they met in heaven and decided to go to the throne of God to resolve their old disagreement. God seemed a bit busy, so he would reply in writing a few days later. After much deliberation, God sent the following letter:

My beloved children,
Please stop bickering about such trivial matters. Both of your orders are equally great and good in my eyes.
Sincerely yours,
God, S.J.

Jesuit High School 50th Reunion

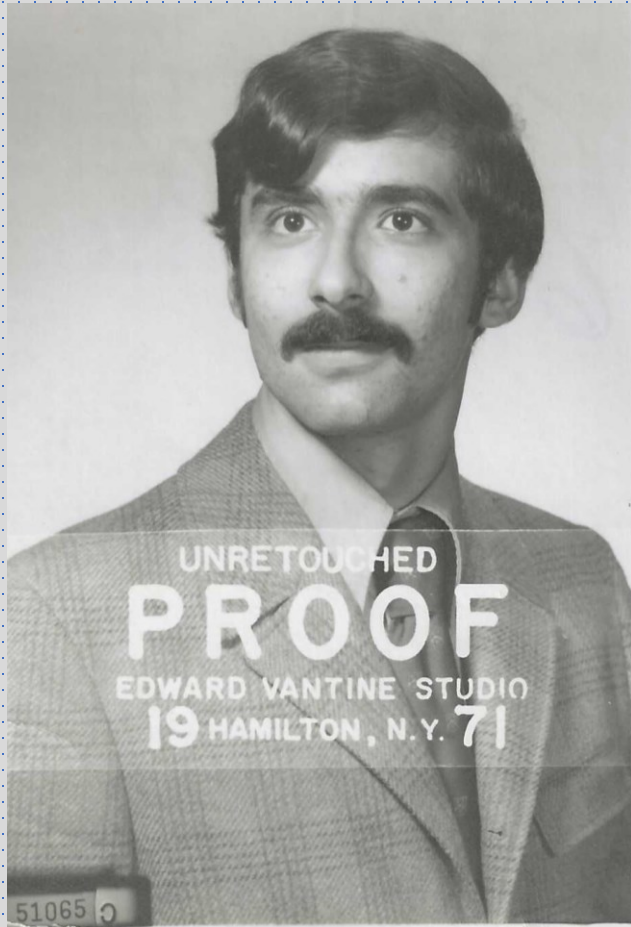
- [Jim Donelon](#) (Class of 1962), Louisiana [insurance](#) commissioner^[37]
- [Jay Thomas](#) (Class of 1966), actor (Eddie LeBec of *Cheers*, *Murphy Brown*) and radio personality ([Sirius Satellite Radio](#), Channel 104 M-TH, Channel 101 F)
- [Jason Berry](#) (Class of 1967), investigative journalist, book author, and historian
- [Jay Zainey](#) (Class of 1969), Federal District Court judge, appointed by President [George W. Bush](#)
- [Paul Schott Stevens](#) (Class of 1970), attorney, serving on the National Security Council under [President Ronald Reagan](#)
- [Steve Foley](#) (Class of 1971), NFL player ([Denver Broncos](#))
- [Jim Gaudet](#) (Class of 1973), [MLB](#) player ([Kansas City Royals](#))
- [Michael T. Dugan](#) (Class of 1975), educator and accounting scholar
- [Ellis Henican](#) (Class of 1976), journalist and voice actor ("Stormy" Waters of Sealab 2021)
- [Christian LeBlanc](#) (Class of 1976), actor (Michael Baldwin of *The Young and the Restless*)
- [Marc Morial](#) (Class of 1976), Mayor of New Orleans (1994–2002)^[37]
- [Brett Giroir](#) (Class of 1978), American Physician Scientist, Assistant Secretary for Health (2018-2021), former four-star admiral in the U.S. Public Health Service Commissioned Corps
- [Mitch Landrieu](#) (Class of 1978), Mayor of New Orleans and son of former Mayor [Moon Landrieu](#) (1970–1978), former Lieutenant Governor
- [Fred LeBlanc](#) (Class of 1981), drummer and singer in rock band [Cowboy Mouth](#)
- [Will Clark](#) (Class of 1982), Major League Baseball player, 6-time All-Star, [Gold Glove](#) winner^[38]



BS, Physics

University of New Orleans, New Orleans, Louisiana

May 1973



Rocky marries Adrienne Wild
March 30th, 1972



PhD, Physics

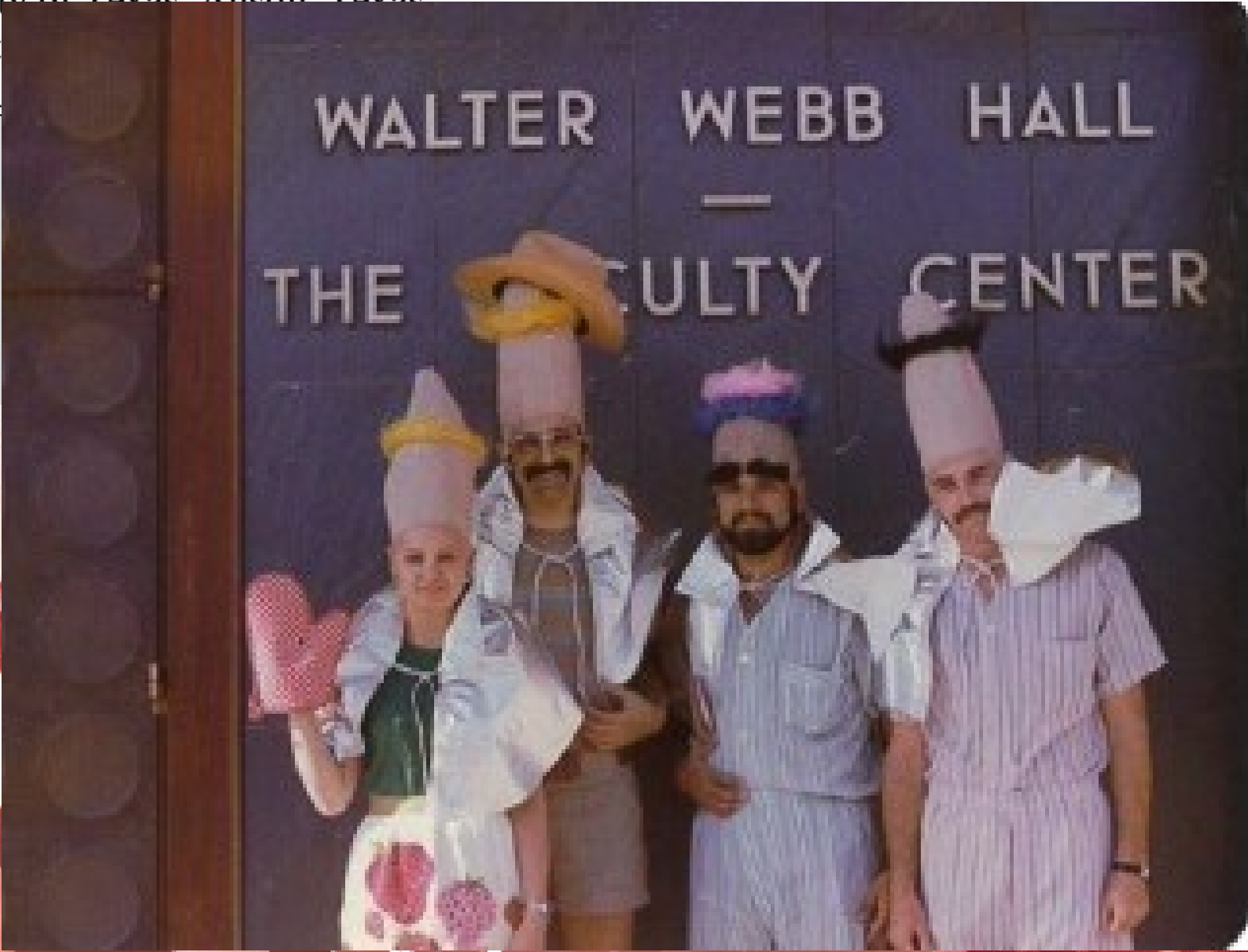
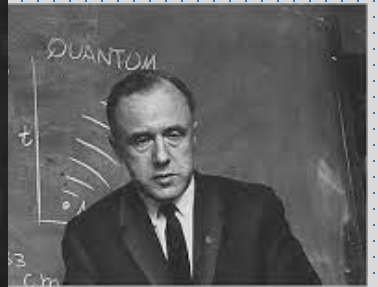
University of Texas, Austin, Texas

Dissertation

Thesis Advisor

May 1978

WALTER WEBB HALL
—
THE FACULTY CENTER

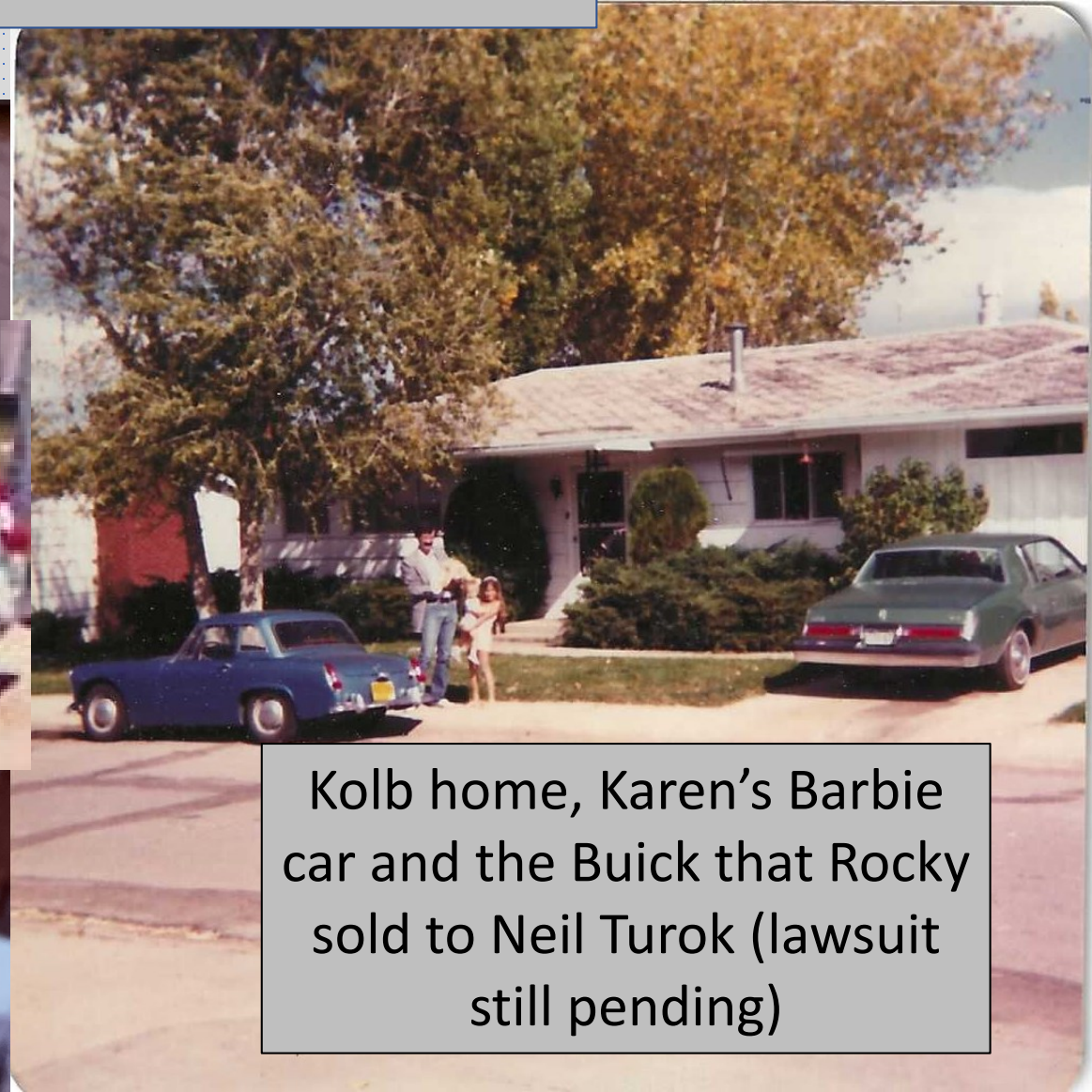


From Texas to Caltech where he joined Willy Fowler's army of nuclear astrophysicists
1978 to 1980 – more from Jeff Harvey



On to Los Alamos as an Oppenheimer Fellow 1980 to 1983

with Stirling Colgate



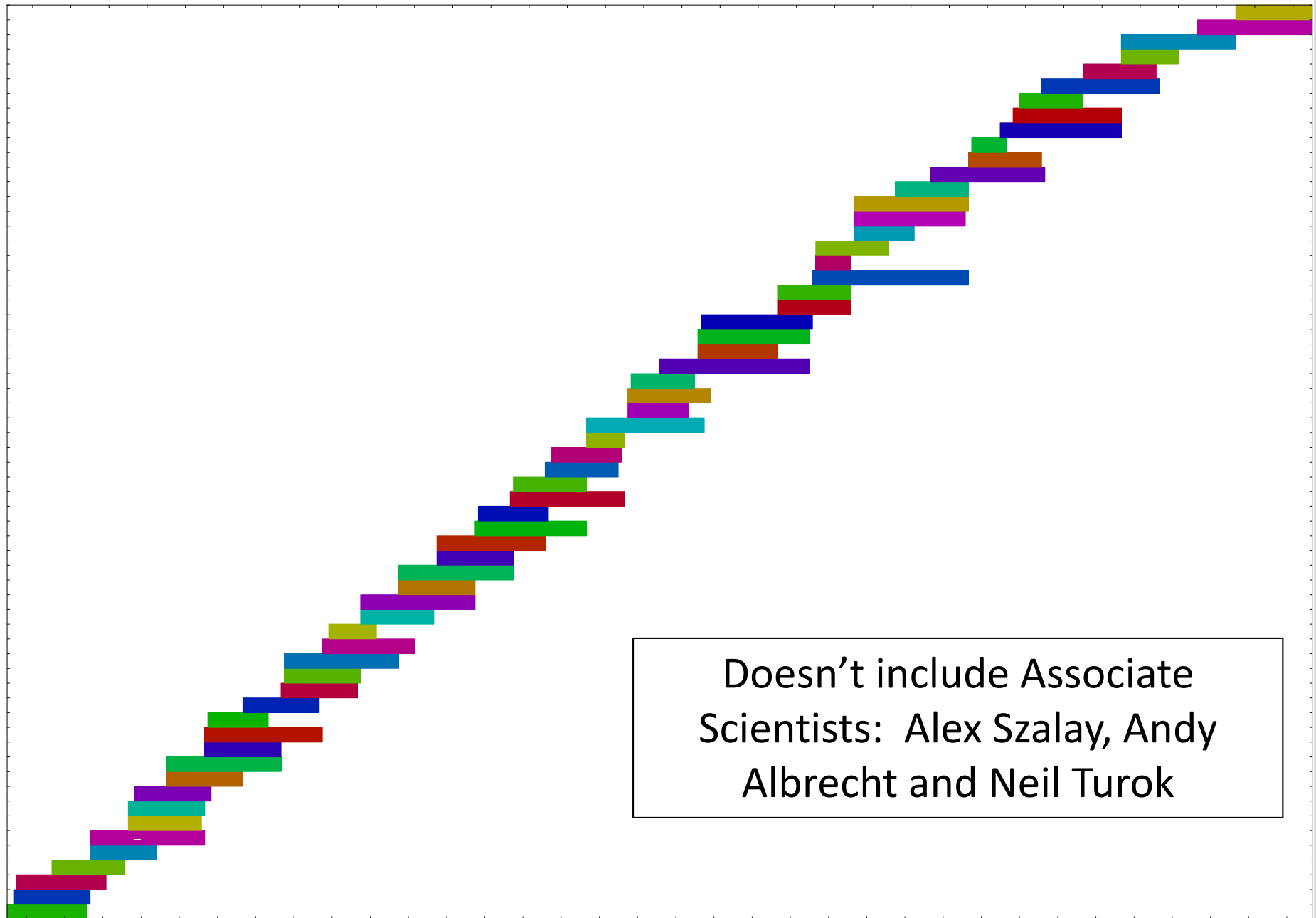
Kolb home, Karen's Barbie car and the Buick that Rocky sold to Neil Turok (lawsuit still pending)

Bringing particle physics, cosmology and astrophysics together, Fermilab 1983 – 2006

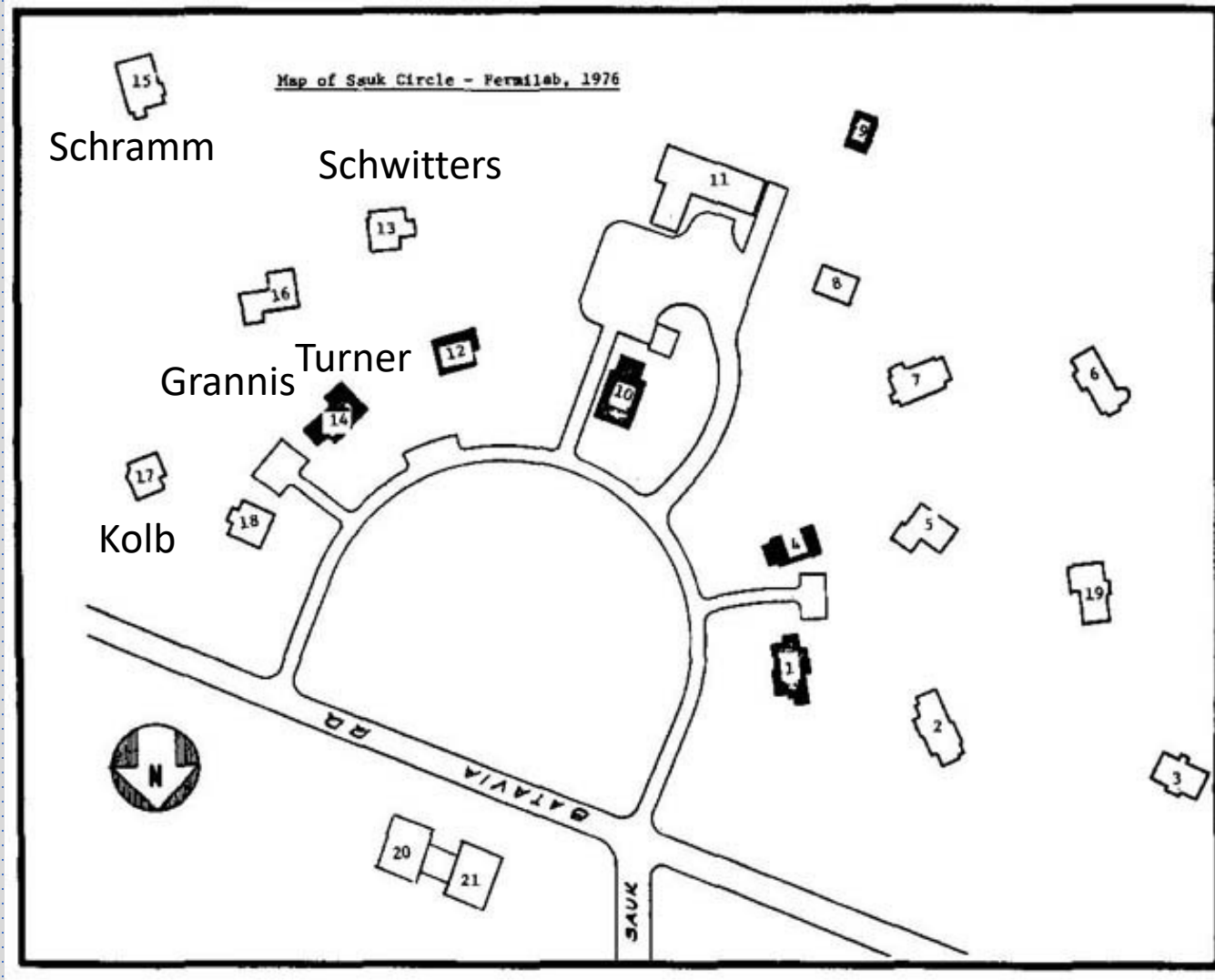
Rocky (to AIP): “We made it up as we were going along. We were hiring postdocs, remodeling offices, and building offices, doing this, doing that. And I kept waiting for someone to come around and say, “OK, you kids aren’t in charge, I’m actually in charge.” But we were left alone.”

“But Leon left us alone and provided inspiration. And the life in that period at Fermilab was wonderful. My wife and I hit it off with Leon and his wife Ellen. We had many dinners at their home. Leon would invite a lot of people. Passing through Fermilab were senators, cabinet members, artists, professors here and there, various famous people. And Leon would entertain them at his home very often for dinners and cigars. I used to smoke cigars then. A lot of alcohol. It was just a great time filled with jokes, physics stories, and history.”





Rocky* comes to Fermilab 9/1/1983



* With Adrienne, three children and one dog.



17 Sauk Circle



Coming out party for
a new field and style

INNER SPACE OUTER SPACE

The Interface between Cosmology
and Particle Physics

ROCKY KOLB
CO-CHAIRMAN

INNER SPACE/OUTER SPACE

THE OFFICIAL CONFERENCE OF
THE 1984 SUMMER OLYMPICS

Astrophysicists Host Spacey Conference

Source: FermiNews, May 31, 1984
by Rocky Kolb and Michael Turner

During the first week of May, the theoretical astrophysics group at Fermilab hosted an international conference on science at the interface of particle physics and cosmology/astrophysics. The conference "Inner Space/Outer Space" was attended by a very diverse group of more than 200 physical scientists, including astronomers, astrophysicists, cosmologists, low-temperature physicists, and elementary particle theorists and experimentalists. The common interest which brings this diverse group together is the connection between physics on the smallest scale probed by man--the realm of elementary particle physics--and physics on the largest scale imaginable (the entire Universe)--the realm of cosmology.



MICHAEL TURNER
CO-CHAIRMAN

INNER SPACE/OUTER SPACE

THE OFFICIAL CONFERENCE OF
THE 1984 SUMMER OLYMPICS

of stars, it probably exists in a dark spherical halo, which is
comprised of the exotic relics mentioned above. Simulations
summarized the results of numerical simulations of the formation of
structure (i.e., galaxies, clusters, etc.) in model Universes with different
parameters.



Inner Space / Outer Space. The Interface Between Cosmology and Particle Physics.

"FOR STEPHEN HAWKING WITH BEST REGARDS OF ALL THE EDITORS": INSCRIBED TO STEPHEN HAWKING; FROM HIS PERSONAL LIBRARY

For Stephen Hawking with best regards of all the Editors

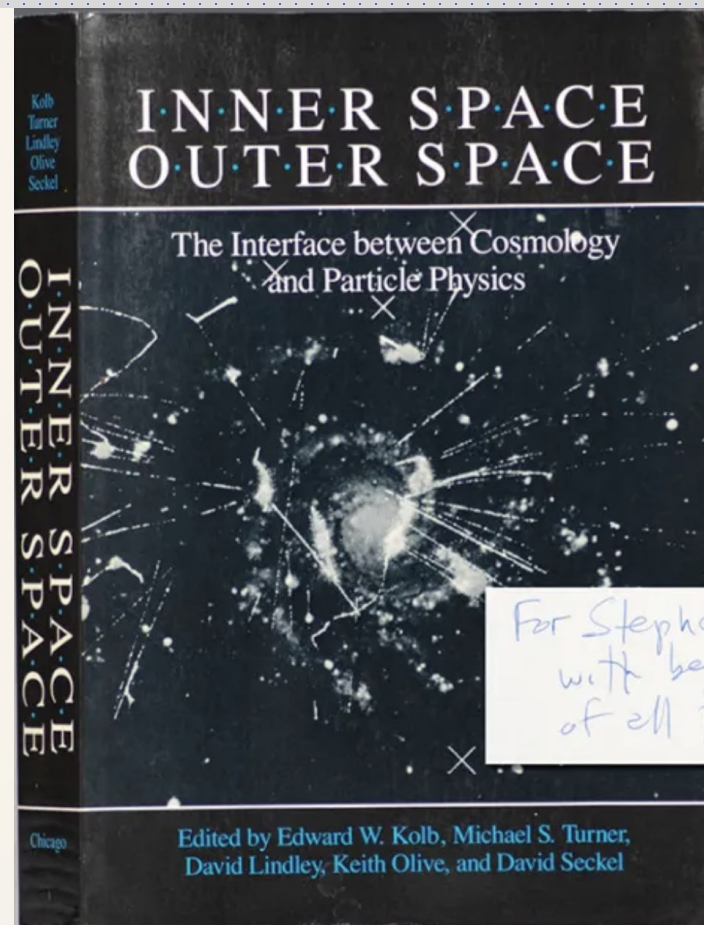
Had to convince UChicago Press to publish. The Press: We don't do proceedings; K&T: this will not be proceedings; it will be a milestone in science! The published it.

Edited by Edward W. Kolb, Michael S. Turner, David Lindley, Keith Olive, and David Seckel

Inner Space / Outer Space. The Interface Between Cosmology and Particle Physics.

The University of Chicago Press

Chicago and London



For Stephen Hawking with best regards of all the Editors

Edited by Edward W. Kolb, Michael S. Turner, David Lindley, Keith Olive, and David Seckel

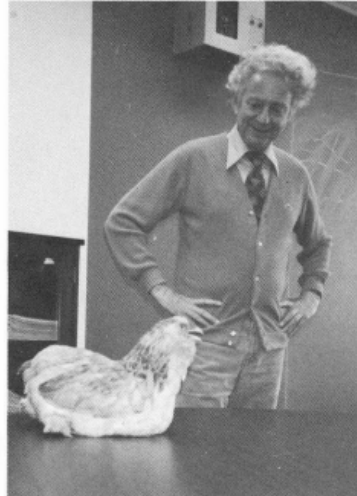
Astrophysics raised the level of professionalism at Fermilab

THEORETICAL PHYSICS GROUP IS GOING TO THE DOGS !

by Rocky Kolb

The Theoretical Physics and the Theoretical Astrophysics Groups sponsored a "Pet Day" and "Pet Parade" on May 30, 1984, on the third floor of Wilson Hall. Marlin Perkins was scheduled to be the Grand Marshal of the Pet Parade, but at the last minute was called to CERN to study the new "Zoo" events. Mr. Perkins asked his close, personal friend, our own Ellen Lederman, Fermilab's friend of the animals, to fill in for him. The award for the best-dressed animal went to Guinevere Bjorken, of Samoyed heritage, who was attired in a stunning blue gown with matching bonnet and glasses. As James "Bj" Bjorken, patriarch, explained during the post-award press interview, proper coordination of the accessories is the secret if you want a well-dressed pet. The award for the most unusual animal went to Leon Lederman who entered one of his prized chickens. Lederman took the opportunity to announce his plans to start a fast-food chain of fried chicken outlets. Look for "Colonel Lederman's Prairie Fried Chicken" in your neighborhood. The restaurants feature a distinguished silver-haired gentleman prominently pictured in all advertisements.

Also on parade were several pet theories of Theory Group members.



Leon "The Colonel" Lederman proudly displays his SCC (Super Crisp Chicken) reference design study.





Mike Baker, Fred Lewis, Floyd "Hammer" Sample and Lee Scott of the Winter League champion Lakers.

Winter League Champs 2006



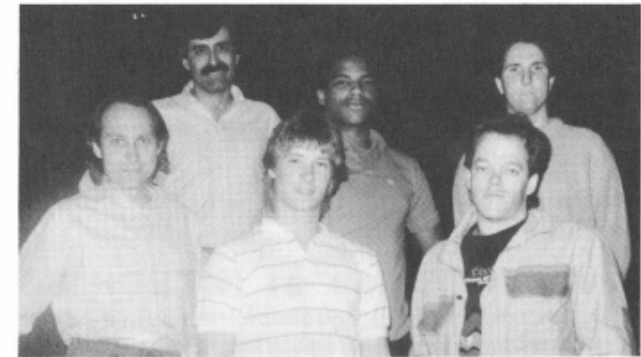
Floyd "the Hammer" Sample:

Rocky wasn't as good as the other eggheads – say Bill Bardeen who could really score in the paint – but he was well connected with the Director so I switched from the Lakers to the Hematomas and they started winning championships

Winter Basketball League Reports Final Standings

Another thrill-packed Winter Basketball League season has come to a close, with the following results:

In regular league competition, the Lakers finished in first place, the Hematomas captured second, and the Jedi Consultants placed third. The Lakers' roster included Fred Lewis, Mike Baker, Virgil West, Bishop Smith, Wayne Waldon, Necota Smith, Larry Norman, James Hodges, and Drue Wallace. Playing for the Hematomas were Terry Walker, Mike Driscoll, Rick Naon, Kevin Jenkins, E. (Rocky) Kolb, Kenny Foster, Ken Duckett, Brian LaVoy, Gordie Gillespie, and team owner [and notorious croquet hustler - ed.] M.S. Turner. Pounding the boards for the Jedi Consultants were Larry Spires, Tyrone Thomas, Floyd Sample, Phil Adderley, Clifford Foster, Gary Smith, Ken Parker, and James Hubbard.

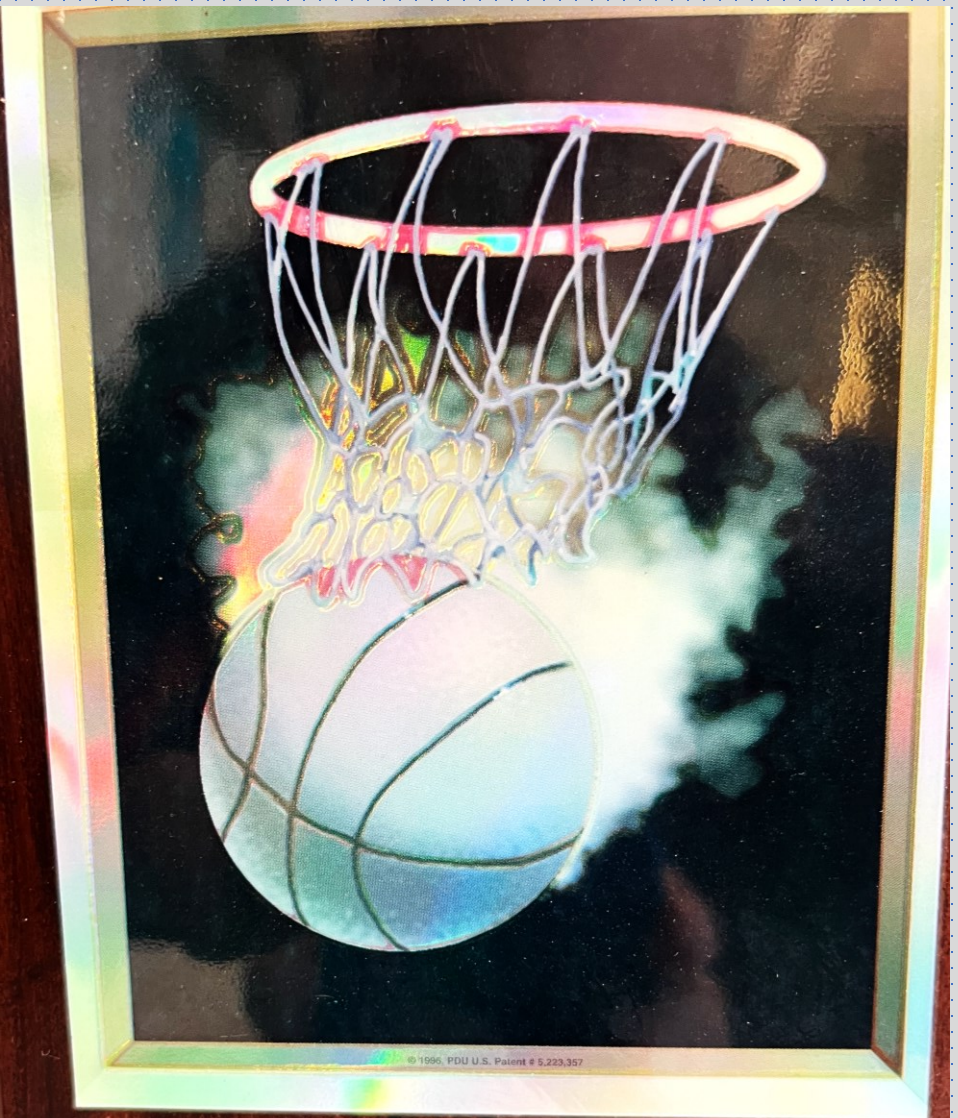


Most of the Hematomas, victors in the round-robin tourney.

6th, and March 13th, the Hematomas emerged victorious by defeating Valley Electric in the final game. Valley Electric's team consisted of Jorge Hernandez, Terry Little, Kerry Ewald, Stan Boyson, Tracey Fewes, Marty Whitson, Chuck Grimm, Bill Gunderman, and Steve Gould.



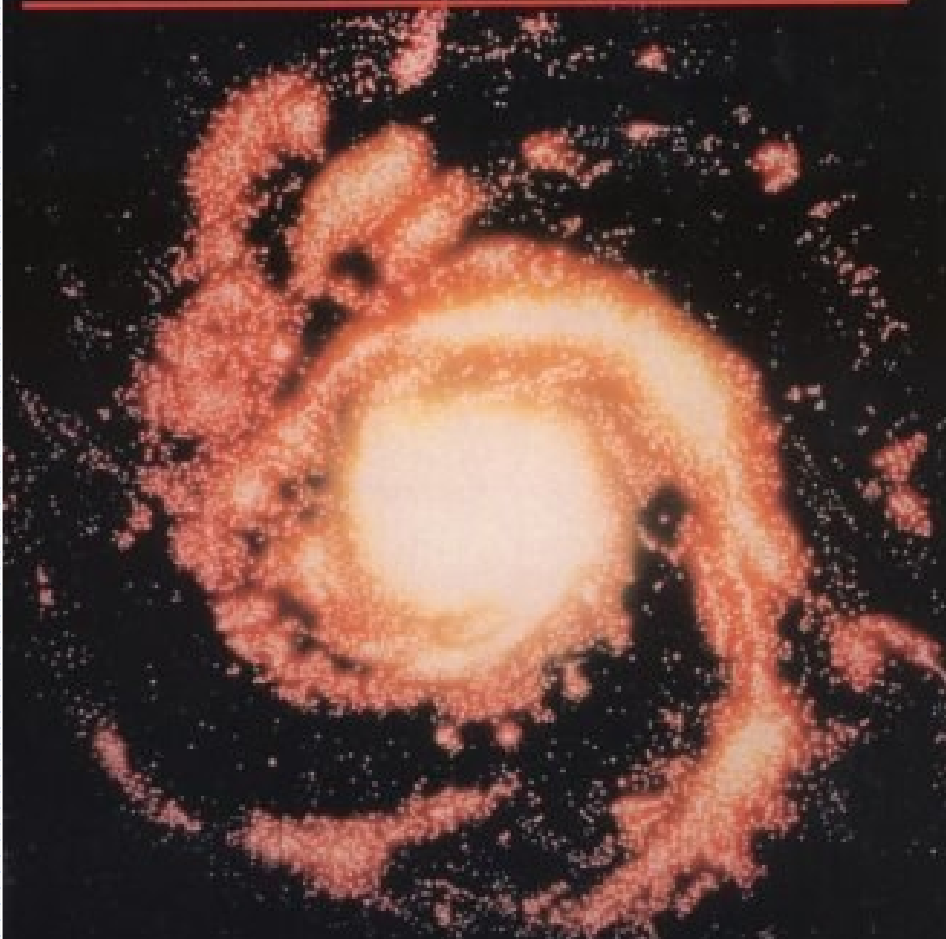
LEMATOMAS (+ 'Owner'): Fermilab 1986 B-Ball Champs



© 1996, PDU U.S. Patent # 5,223,357

1997-98 WINTER BASKETBALL LEAGUE
1ST PLACE CHAMPS REGULAR SEASON
EDWARD "ROCKY" KOLB
#11
FERMILAB

The Early Universe

EDWARD W. KOLB ■ MICHAEL S. TURNER
Copyrighted Material

Book Review

The Early Universe. Edward W. Kolb and Michael S. Turner. Addison-Wesley, New York, 1990. 547 pages, \$48.95

[Editors note: Because of the difficulty of locating any of our usual book reviewers during the summer, we were hard pressed to find someone to review this book. Luckily, we were able to find someone outside the usual list of contributors. The mother of one of the authors, Mrs. Dorothy B. Kolb, agreed to review the book.]

This book was written by my son, Edward W. Kolb, usually known as Rocky (I have never approved of that nickname), and by Michael S. Turner. Of course I know my son very well, although he never calls, but I don't know that other boy. "Turner is not the kind of collaborator you want your parents to meet," Rocky tells me. I don't know about that, but I do know that Rocky's Aunt Bertha's son Sidney brings all of his friends home to meet his parents, and Sidney is a big success, a doctor. Not a Ph.D. mind you, but a real doctor. Well, actually he is a dentist, but even if he were a real doctor he would still bring his friends home.

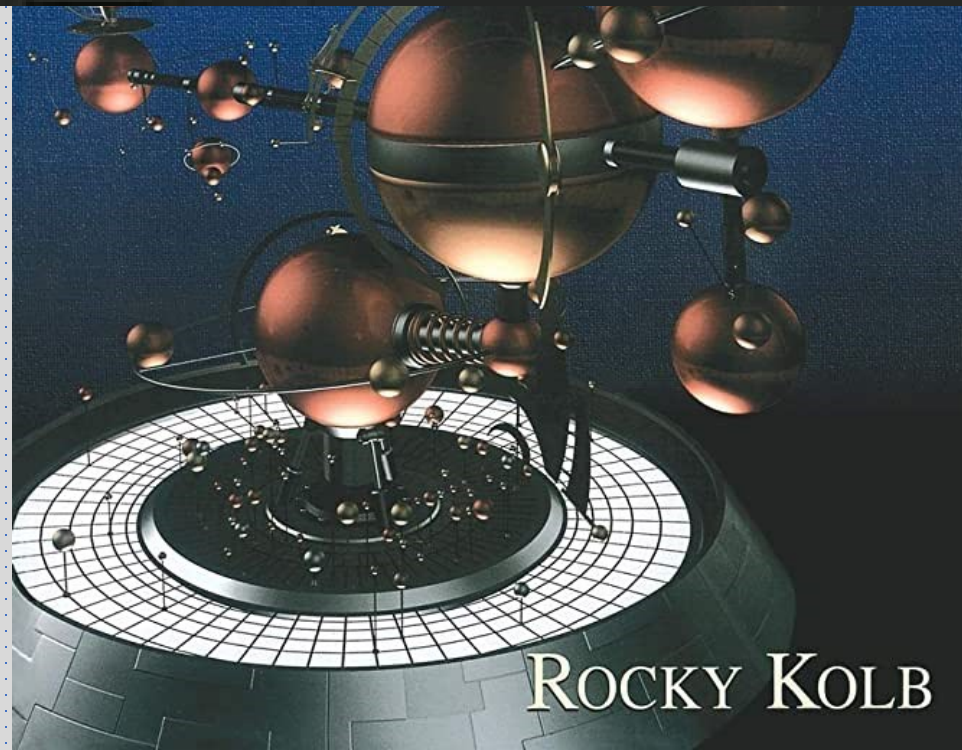
"The Early Universe" is published by Addison-Wesley as part of its Advanced Book Program, for whatever that's worth. It has a blue and white cover, although I think it should have a nice picture on it. In fact, although there are over 100 figures, there are no pretty color pictures. My son told me that it is not a "trade" book, but a serious book intended for graduate students and professional scientists. "Big deal," I told him. "You think you are too smart to put in a few pretty pictures. Look at that book that nice man David Schramm recently wrote with his young assistant Leon Lederman. That book had a lot of pictures. I'm sure their mothers are very proud of them even if there are no fancy equations in it."

The book has eleven chapters, a finale, and two appendices. You know I could have had my own appendix out for all my son knows. He is so busy writing books and papers that he never comes to see his own

“A thoroughly fascinating tale.”
—George Smoot, coauthor of *Wrinkles in Time*

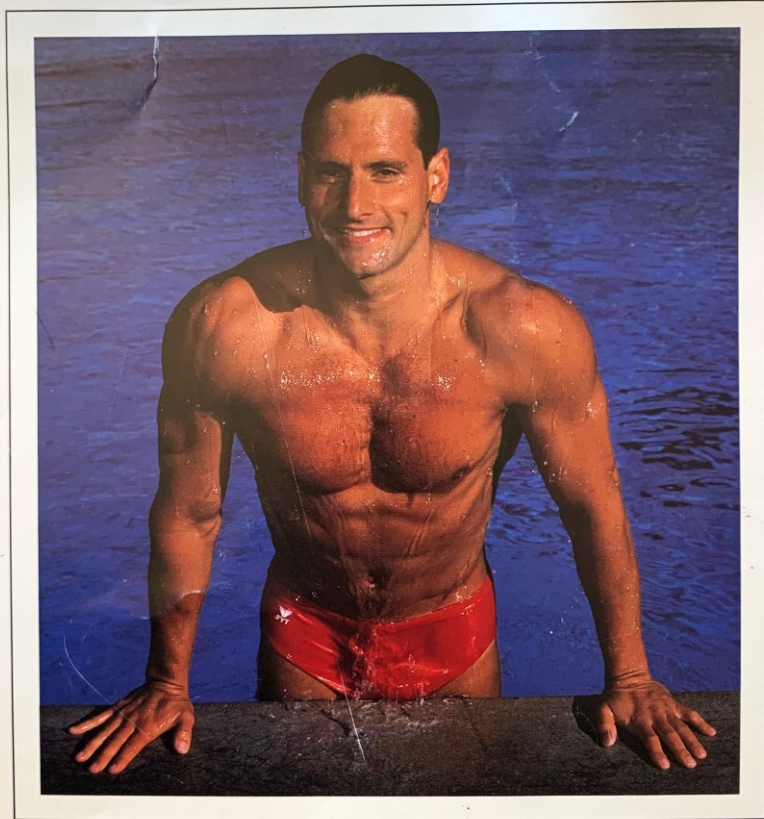
BLIND WATCHERS OF THE SKY

“A thoroughly fascinating tale.”
—George Smoot, coauthor of *Wrinkles in Time*



ROCKY KOLB

Studmuffins of Science



1996 CALENDAR

Hi Michael,

See if these work for ya. I include a snap of the cover. And a couple of different views of the Rocky pages. Don't know if you want to be able to read the "profile." But it is pretty fun. I miss the calendar! I miss Rocky!! I used to get to chat with him more often when I was a producer for Science Friday.

One of his funniest off-the-cuff comments I remember is when I mentioned to him that I thought that being a reviewer of blank books would be a good gig. And he said he thought it would be better to record blank audiobooks on tape. Too good.

Anyhow, do give him my love. And let me know if these pics will work for you...

karen

1996

DR. DECEMBER

Edward "Rocky" Kolb

*Professor of Astronomy
and Astrophysics
The University of Chicago
Member and Former Director,
Theoretical Astrophysics Group
Fermi National Accelerator Lab
Batavia, Illinois*

Young Rocky whiled away many hours reading chemistry texts in his neighborhood library—the only air-conditioned space in his home town of New Orleans. Though he hit the books, Rocky also found time to shoot hoops at the local playground. Even so, Rocky says he never wanted to be a professional athlete or a fireman...just a physicist. Now as a cosmologist, his playground is the universe. If "Rocky" seems an unusual nickname for a scientist, Dr. Kolb finds it pretty convenient—"Rocky" is always available as a computer login name. When he isn't teaching or writing papers, Rocky enjoys singing at the Opera. "When you pay a hundred dollars per seat, you should be entitled to sing along."

Celebrity impression: Elvis during his last years. "It involves lots of peanut butter," says Rocky. "It's not a pretty sight."

Best thing about being a scientist: It shuts up those irritating, chatty people on airplanes. "Tell someone you're a theoretical astrophysicist and they quickly turn their attentions back to the in-flight magazines."

Favorite candidate for dark matter: The light photino (You heard it here first).

Best blackboards: At Fermilab, every office has at least one that stretches from the floor to the ceiling.

Favorite elements: Hydrogen and helium. "They make up 99 percent of the universe."

Biggest secret: He was the fifth Beatle.

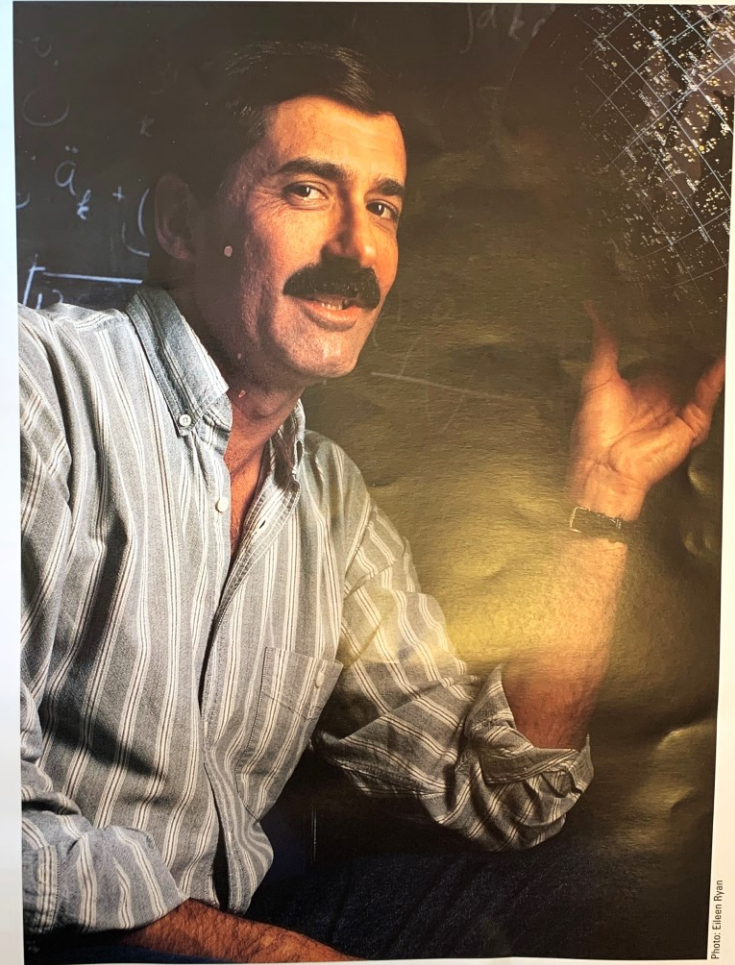


Photo: Eileen Ryan

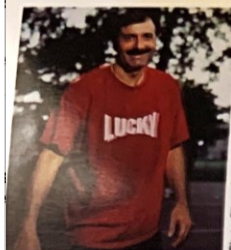


Photo: Eileen Ryan

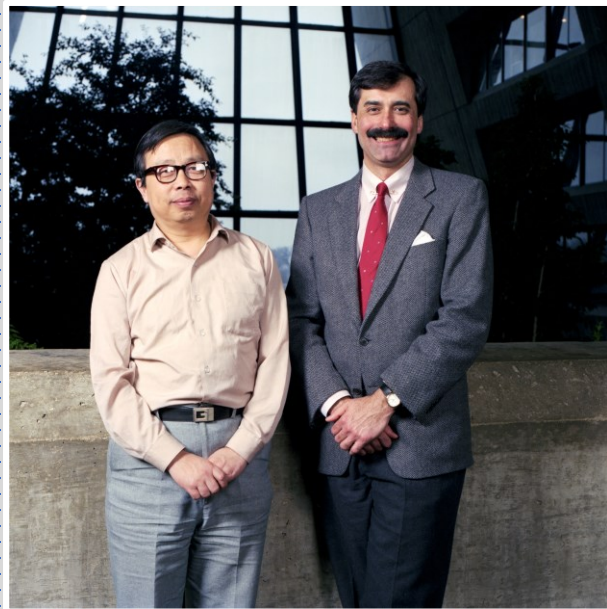
A theoretical astrophysicist, Rocky spends most of his time thinking about the birth of the universe. And he focuses his attention almost exclusively on events that took place during the first second after the Big Bang. "If you're going to pick just one second in the history of the universe to study, the first second is the best one," he says. About 14 billion years ago, the dense, incredibly hot, young universe rapidly expanded. As it grew, it cooled, and in that first second, all the fundamental particles and all the forces in the universe coalesced. But what exactly happened? That question keeps Rocky and scores of theoretical physicists plenty busy. Leaning back in his favorite chair, feet on his desk, Rocky enjoys wrestling with the deep mysteries the universe presents.

Stephen Hawking, many visits



Big Events

Gell-Mann and Zel'dovich, Quantum Cosmology 1985



Fang Lizhi 1991

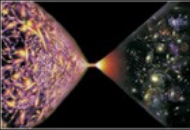
The naming of Hubble Middle School

... after that great athlete from Wheaton, IL






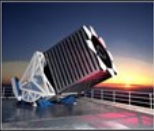
Fermilab Particle Astrophysics Center




Theoretical Astrophysics
The members of the Fermilab Theoretical Astrophysics group perform research at the confluence of astrophysics, cosmology, and particle physics. They are involved in the interpretation of current observations and the planning of future measurements. Since its inception, group members have prepared over 1000 papers for publication.
<http://www-astro-theory.fnal.gov>




Cryogenic Dark Matter Search
Most of the mass of the universe consists of dark matter. The goal of the CDMS experiment is the detection of dark matter particles in a laboratory hall a mile underground in Sudbury, Minnesota. CDMS scientists use ultrasensitive detectors cooled to 50 millikelvins to look for "heat signals" and "charge signals" created by dark matter particles interacting with ordinary matter.
<http://ppd.fnal.gov/experiments/cdms/>



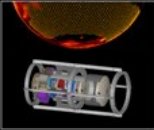
Sloan Digital Sky Survey
The SDSS telescope resides at an altitude of 9,000 feet on top of Apache Point, New Mexico. Since 1999, it has digitally recorded the positions and brightnesses of more than 150 million celestial objects in five wavelengths, from infrared to ultraviolet. Mapping one quarter of the sky, the SDSS collaboration is producing a three-dimensional picture of the sky. Each night the telescope records 200 gigabytes of data.
<http://www.sdss.org>



Supernova/Acceleration Probe
The observation of about 80 supernovae over several years is the best direct experimental evidence for an accelerating expansion of our universe. If approved and funded, the SNAP satellite would increase the discovery rate for such supernovae to about 2,000 per year. The probe is a space-based telescope with a one-square-degree field of view with one billion pixels using large CCD detectors.
<http://snap.lbl.gov>



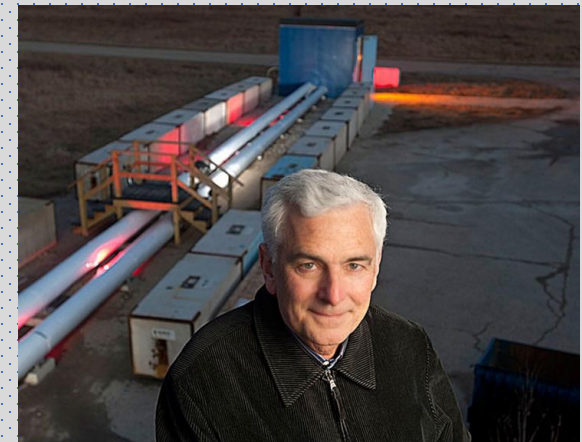
Pierre Auger Observatory
The Pierre Auger Observatory at the base of the Andes Mountains in Argentina searches for the origin of the most energetic cosmic rays, particles that hit the earth's atmosphere with energies up to 100 million times higher achieved by the than world's most powerful particle accelerator. The observatory rates on four buildings with fluorescence telescopes and 1,600 water tank detectors spread across 3,000 square kilometers.
<http://www.auger.org>

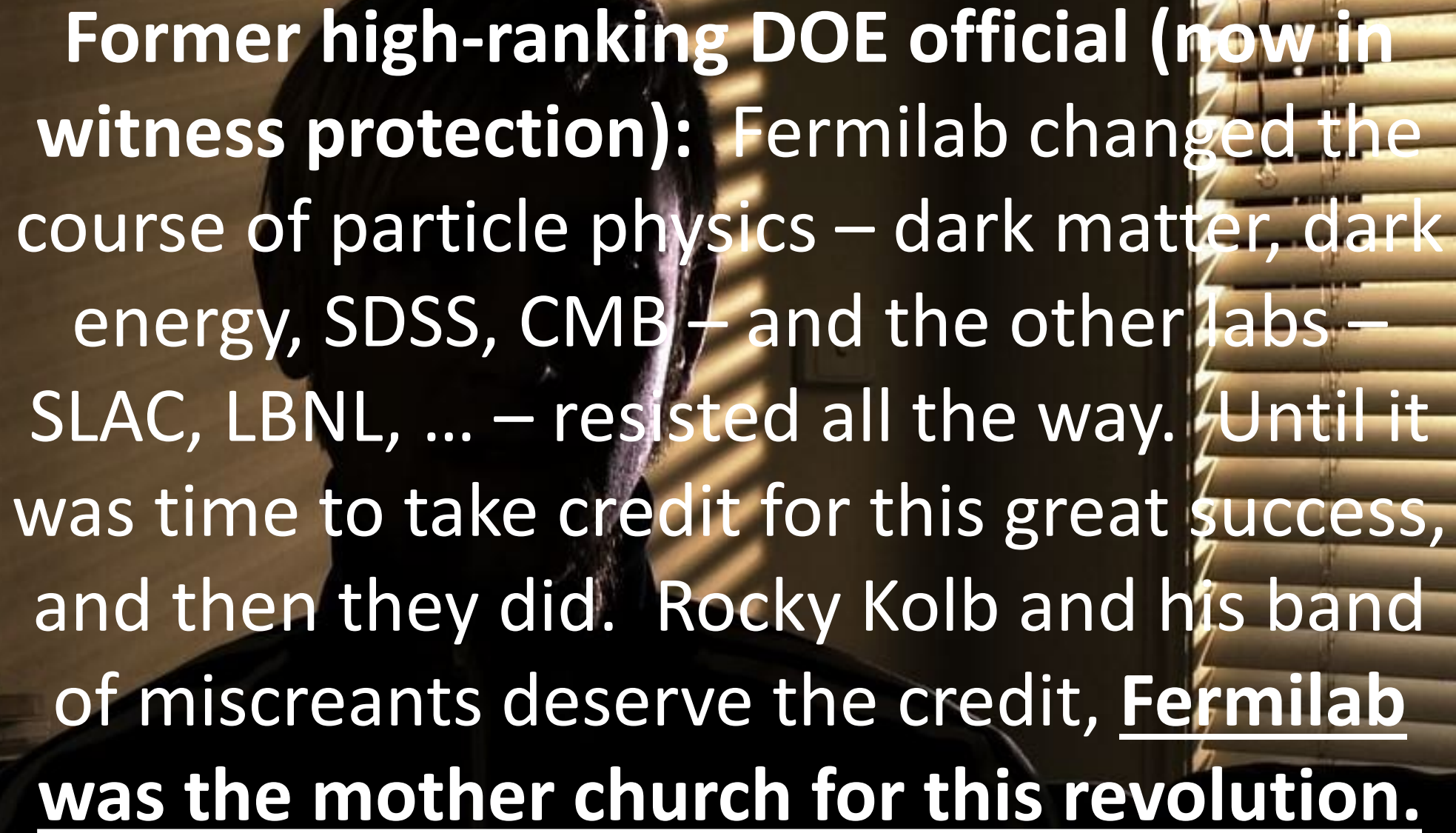


Dark Energy Survey
The Dark Energy Survey is a next-generation sky survey that will make precision measurements of dark energy using four independent astronomical techniques. The DES collaboration will build a 520 Megapixel CCD camera and a 1-meter-diameter prime focus corrector for the Blanco 4-meter telescope at the Cerro Tololo Inter-American Observatory in Chile.
<http://www.darkenergysurvey.org>



Handed off to
Craig Hogan in 2008





Former high-ranking DOE official (now in witness protection): Fermilab changed the course of particle physics – dark matter, dark energy, SDSS, CMB – and the other labs – SLAC, LBNL, ... – resisted all the way. Until it was time to take credit for this great success, and then they did. Rocky Kolb and his band of miscreants deserve the credit, Fermilab was the mother church for this revolution.

Rocky – TAAC and big glass – come to Chicago 2006 – 2012 Chair of Astronomy & Astrophysics



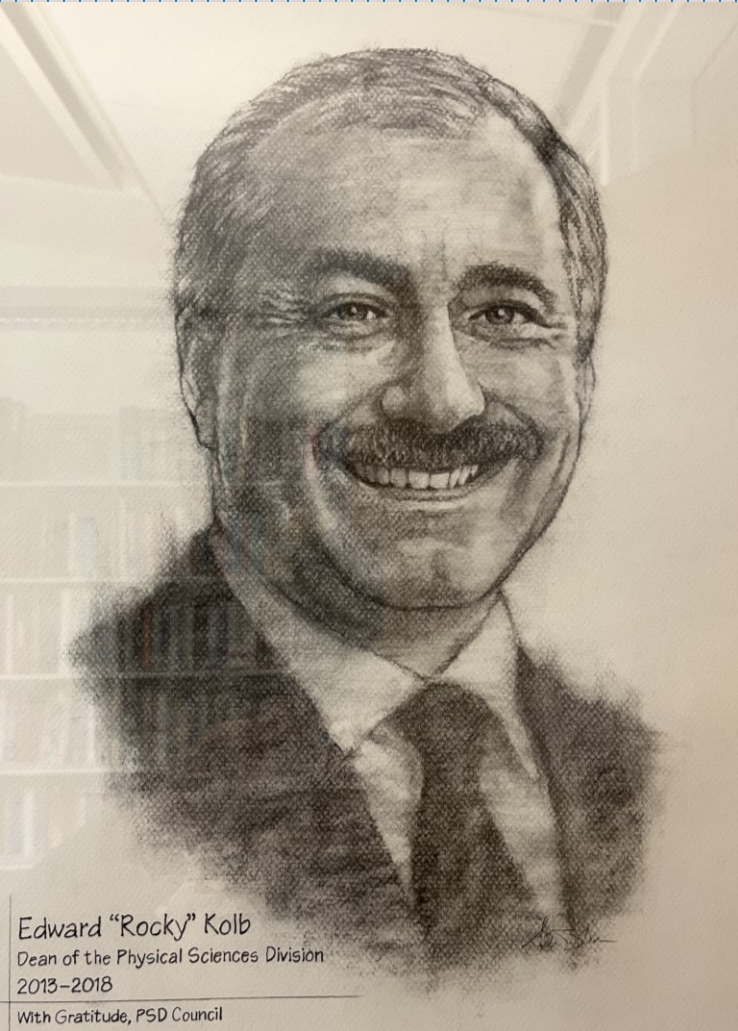
Campus's newest building

Astronomy and Astrophysics finds a home in a trailer park.

By [Benjamin Recchie, AB'03](#) | [Web exclusives](#) — 12.22.2011

“It’s the finest trailer I’ve ever worked in,” enthuses [Rocky Kolb](#), Arthur Holly Compton distinguished service professor of astronomy and astrophysics and the department’s chair, as he walks through the “trailer-warming” party for campus’s latest addition—18 modular trailers joined to form the Temporary Astronomy and Astrophysics Center, or TAAC (pronounced “tack”). Built on a University-owned parking lot just north of the Knapp Center for Biomedical Discovery, TAAC replaces the aging Astronomy and Astrophysics Center (AAC), which is being torn down to make way for the department’s future home in the [William Eckhardt Research Center](#). The faculty, students, and staff in AAC moved to TAAC over Thanksgiving break; those in other buildings, such as the Laboratory for Space and Astrophysical Research, were unaffected.

Rocky the builder 2013 – 2018 Dean of Physical Sciences





Stairway to the stars



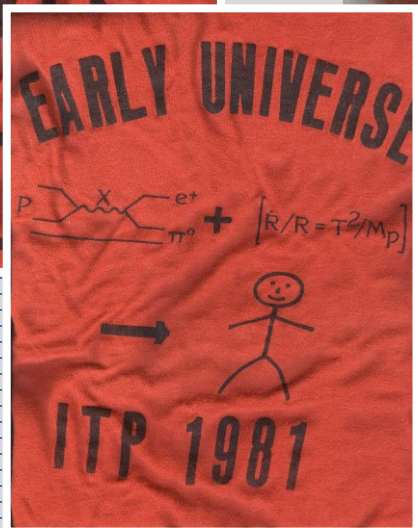
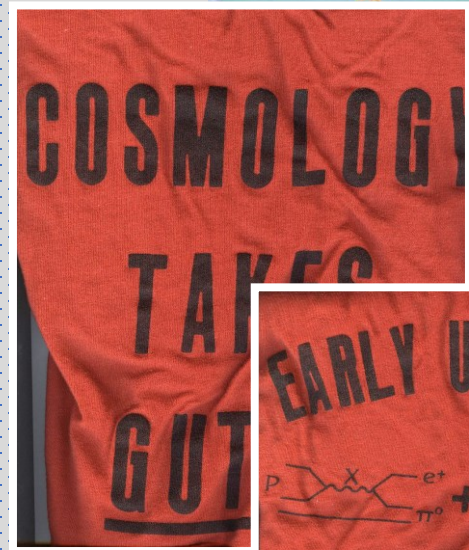
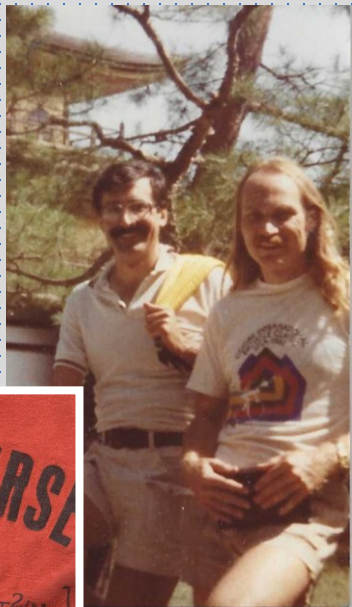
The stitch

2019 – 2022

David N Schramm Director of KICP



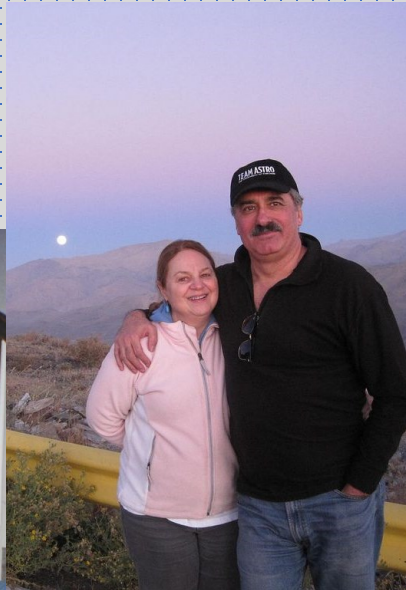
ITP 1981 →
EARLY UNIVERSE



Rocky and family – it is a package deal



Warrenville



Las Campanas



Berkeley



New Orleans

Chicago: 50th anniversary

