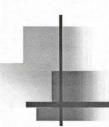
#### DRAFT!!!

(For CONNECT and Global CONNECT Internal Use Only Please do not dessiminate without C.L or M.L.W.'s permission. Thanks!)



### A History of CONNECT-

Reconstructed from Primary Sources and CONNECT Archival Material

Compiled by
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Aug. 10th, 2005

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- San Diego, led by the SD EDC, bid on bringing MCC and Sematech consortiums to San Diego, and lost
- Dan Pegg hires Richard Kiy, then a Stanford undergrad, to do a white paper on how SD can grow its own Fortune 500 companies because attraction strategies weren't working very well
- EDC came to UCSD but Dick Atkinson's response was the university doesn't do entrepreneurship. We'll use the Extension Service to assist you.
- Hence a small advisory committee was convened to look into ways UCSD could assist. This small group defined the purpose, MLW drafted the program goals, Atkinson endorsed it and sent the letter to sponsors, together with the press release announcing the creation of a new program called the "Program in High Technology and Entrepreneurship."

Source: MLW Personal Recollections

## 1985 Mission Statement for the Program in Technology and Entrepreneurship

To the benefit of San Diego, the Program in Technology and Entrepreneurship at UCSD will link local, state, national, and international individuals, businesses and institutions to:

- Support and Encourage innovative application sof knowledge by entrepreneurs and intrapreneurs
- 2. Create the environment that can lead to the development of new businesses in selected technologies in San Diego
- 3. Meet needs of specific constituencies
  - pre-start up entrepreneurs
  - entrepreneurs in business
  - intrapreneurs
  - service industries
  - non-local interest groups
- 4. Contribute to the growth of San Diego as a major center of innovation
- 5. Enhance research at UCSD through community interaction



### Some pithy prophetic quotes from Bill Otterson upon his appointment as Executive Director

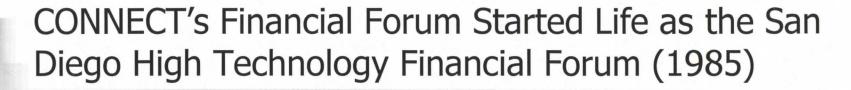
- "As the new director of CONNECT, the Program in Technology and Entrepreneurship, my objective is to connect our three constituencies:
  - 1. The university and its principal investigators, those scientists who do the basic research.
  - The high technology entrepreneurial individual or company as well as the intrapreneurial division within a large high technology firm
  - The support communities which service high technology—the accountants, attorneys, bankers, venture capitalists, marketing consultants, advertising agencies and public relations firms."
- "My objective is to have San Diego considered along with Silicon Valley as being in the forefront in high technology."
- "Most of all, I have a burning desire to help others become successful entrepreneurs against overwhelming odds."



- Raising Capital for High Tech Enterprises (Half Day Seminar, Fall, 1985)
  - Buzz Woolley as speaker
- Marketing for the High Tech Entrepreneur/Intrapreneur (2 part, half day seminars, 3/21/86)
  - Regis McKenna brought in as an outside speaker
- Meet the Entrepreneur (9/18/86)
  - First speaker was Peter Preuss, founder of ISSCO
- Meet the Researcher (1/29/87)
  - First speaker was Jack Wolfe, UCSD Prof., Center for Magnetic Recording Research (CMRR)
- Other on-going events around town highlighted in early newsletters of that period (1986-87). In other words, CONNECT did not operate in a vacuum—these other groups may have existed before CONNECT came on the scene:
  - SD Patent Law Association (member events)
  - High-Tech and Computer Law Section of SD County Bar Association (member events)
  - UCSD Extension occasional seminars in biotech
  - UCSD Executive Programs
  - MIT Enterprise Forum
  - San Diego Technology Financial Forum
  - San Diego Venture Group
  - San Diego Chapter of the Association of Biotechnology Companies (Bob Weaver in charge)
  - San Diego Chapter of the Computer and Electronics Marketing Association
- How to Start a High-Tech Enterprise (4/1/87)
  - Buzz Woolley ran the course. \$145 for course but FREE for UCSD faculty, students & staff!
  - "Demand for this class exceeded capacity so early registration is advised!" (Source: 1988 Winter Newsletter)



- (Spring, 1986 newsletter) Ivor Royston, Howard Birndorf and Robert Sobel, UCSD SOM asst. prof. started IDEC with \$2.4M from VenRock, CW Group, Asset Management Co. (CONNECT founding sponsor) and Kleiner Perkins. Kleiner Perkins originally funded Hybritech.
  - There is no explicit mention in the newsletter of how CONNECT assisted IDEC in those early days. The newsletter article was more along the lines of publicizing the founding of the company, as a community news item.
- (Summer, 1986 newsletter) Andrew Viterbi and Irwin Jacobs started Qualcomm on 7/1/85.
   Co. grew from 7 to 35 that first year.
  - There is no explicit mention in the newsletter of how CONNECT assisted Qualcomm in those early days. The
    newsletter article was more along the lines of publicizing the founding of the company, as a community news
    item.
  - However, at Irwin Jacob's induction into CONNECT's Hall of Fame (5/26/05), he related stories of how he called Bill Otterson at CONNECT repeatedly during Qualcomm's start-up phase and how Bill informally gave generously of his time and counsel to assist him.
- Other early companies assisted informally (1985-86):
  - Jack Hugus, Scientific Computer Systems, SCS provided the SDSC with their first supercomputer which operates at 25% speed of a Cray at 1/10<sup>th</sup> the cost
  - Steve Vallendar, Celerity Systems
  - Dean Hampton, Paragon Networks
  - Audre, Inc.
  - H&S Associates
  - John Culbertson, Culbertson Wineries [The newsletter mentioned that Bill "tasted their product on numerous occassions" (sic)]
- "CONNECT Announces new Company Counseling Program to provide personalized assistance to selected high tech companies" (Fall 1986 Newsletter).



- First SD High Technology Financial Forum held at Westgate Hotel, Feb. 19-20<sup>th</sup>, 1985.
  - Founders were Nick Fisher, partner at Touche Ross and Bill Flanigan of William Flanigan Associates, a local consultant.
  - Founding sponsors were Dale and Lloyd (SD law firm), La Jolla Bank and Trust and Gray, Cary, Ames & Frye.
  - Associate (non-financial) sponsors were UCSD Extension and SD EDC
  - Feb. chosen to lure investors from other parts of N. America and other dates had been staked out by other VC conferences
  - 60 applicants screened down to 25 finalists; 21 presented as 4 cos got financing and dropped out prior to Forum.
     Majority were biotech or med device firms, including Gen-Probe, Quidel and REMEC.
  - UCSD professors served as technical reviewers while local business service providers did the business plan reviews and dry runs
  - 54 investment firms attended, 60 attendees
  - 5 cos got funded out of that first Forum!
- Annual event each spring since 1985
- CONNECT doesn't have archival material of the early Fin. Forums. Binders from 1985, 1986, 1989 are missing...
- CONNECT Steering Committee meeting notes from 11/17/86 mentions that "CONNECT is now very influential in the planning of next February's program."
- Bill O. was Chairman of the fourth annual SD Technology Financial Forum (Feb. 1988).
- "On July 11, 1989, the original sponsors of the SD Technology Financial Forum voted to convert the SD Technology Financial Forum into a non-profit enterprise and have CONNECT manage the Forum in conjunction with representatives of the original founders of the Forum."

Source: William F. Flanigan, Jr., "Looking Back: San Diego's First Venture Capital Conference" 1990 6<sup>th</sup> Annual San Diego Technology Financial Forum Program Binder Insert

### 1985-1990 SD Technology Financial Forum Success Stories:

- 1986-4 cos funded including:
  - Thomas Technologies, Emerald Systems, Sunward Technologies and \_\_???\_\_\_
- 1987-10 cos funded including:
  - Cytotech, Four Pi Systems, Gen-Probe, Synbiotics, Immunetech Pharmaceuticals, Mycogen, Quantum Materials, Megahaus Corp., and Scientific Computer Systems.
- 1988-11 cos funded including:
  - Apex Medical Technologies, Celluland, Clonetics, Cymer Laser Technologies, Golden Triangle Computers, Intramed Labs, Microbeam and Viagene
- **1989-90**:
  - CONNECT newsletters began to list recent financings, every quarterly issue after Spring/Summer 1989 issue
  - Fall 1989 (11 cos, Pacific Data Products highlighted)
  - Winter 1990 (15 cos)
- IPO's blossomed in 1991-92:
  - Spring '92 Newsletter listed 13 CONNECT companies that had an IPO in 1991-1992 including:
    - Amylin Corp.
    - Aramed Inc.
    - Biomagnetic Technologies Inc.
    - Brooktree Corp.
    - Corvas International
    - Cytel Corp.
    - Dura Pharmaceuticals

- Genta Inc.
- IDEC Pharmaceuticals
  - ISIS Pharmaceuticals
- Protein Polymer
- QUALCOMM Inc.
- Telios Pharmaceuticals



- Fall 1987, first 4 companies join CONNECT as company members
  - Gensia, Computer Cognition, Synbiotics and Scientific Computer Systems
- Winter '88, 17 companies joined
  - Brooktree, Celerity Computing, Computer Cognition, DigiVision, Gensia, Hecht-Nielsen Neurocomputer, Immunetech Pharmaceuticals, Mycogen, Qualcomm, Rohr Industries, Scientific Computer Systems, Synbiotics, Syntro, Systech, Talaris Systems, T.E.S.T., Valor Electronics
- 1988 CONNECT Sponsor & Company Member Directory (pamphlet sized booklet)
  - 22 Founding Sponsors
  - 49 Sustaining Sponsors
  - 20 Company Members
  - Un-dated center insert listed 8 new sponsors and 30 new company members
- The next earliest directory in the CONNECT archives date from 1991. It's not clear if there were other directories printed between 1988 and 1991 and have been lost OR if the 1991 directory was the next printing.
- CONNECT directories were printed annually until 2000.
- Since that time, there has been one directory published in 2002 and a decision made to have the directory come up on a bi-annual basis. However, there was no directory printed in 2004 so the continuation of the directory is unknown at this time.

Source: CONNECT Newsletter, Fall 1987



## Most Innovative New Products Award Competition (1988)

- Sponsored by Imperial Bank (Cub Parker, VP)
- Announcement made in Fall 1988 Newsletter
- 40 entries in 4 categories (product introduction between 10/1/87-10/1/88)
  - biomedical/biotechnology
  - high-tech electronics
  - software
  - Other emerging fields
- MIP Award Lunch 12/6/88
- First winners were:
  - Mycogen's M-One, envir. safe bioinsecticide against Colorado potato bettle
  - Cymer Laser Technologies' Series CX Excimer Laser
  - Athens Corp.'s Piranha Piranha Reprocessor, a point-of-use purification system for semi-conductor industry
  - HNC's IDEPT and ExploreNet software



- History:
  - Established in 1989 (11/6-7)
  - Was an annual fall event from 1989 through 1999
  - In 2000, CP Forum was run as a part of CalBioSummit.
  - No CP Forum event in 2001
  - Name changed to Life Sciences Forum in 2002.
- Instead of presenting to a group of VC's, biotech/biomed companies got a chance to present in front of a group of invited pharmaceutical and biomedical companies from all around the world.
- During the first CP Forum in 1989, 58 participating pharma cos listened to 22 SD companies present
- Concept originated with David Hale who felt that SD biotech were growing out of the VC stage and needed to engage in corporate partnership opportunities.

Source: CONNECT newsletter, Winter 1989

## Defense Conversion Research Project (1990)

- Project Goals:
  - Research the impediments to commercialization of defense technology in light of significant defense budget cuts (Findings to be presented in major public symposium)
  - promote entrepreneurial culture in national labs and within defense firms (work with 3-5 firms on business plans for upcoming Financial Forum)
- Defense Spin-off Companies Participating in 1991 Financial Forum included:
  - Orincon
  - IVHS
  - Gentron
  - Los Alamos Diagnostics
- Project Staff:
  - Fred Howden (former COB of Vista Capital), Director, Intrapreneurship in Defense
  - Chuck Nathanson, Director, University Seminars
  - Bill Otterson, Director, CONNECT
  - Abi Barrow, Research Associate
  - Dan Presser, Project Analyst
- Chuck Nathanson subsequently founded San Diego Dialogue (Summer '91)
- Abi Barrow subsequently became Project Coordinator for CONNECT's Defense Conversion Roundtables

Source: CONNECT newsletter, Fall 1990



### CONNECT SIG's Started in 1992

- Biomedical Industry Council and San Diego
   Biocommerce Association (service providers) created in 1991, eventually merged into BIOCOM in 1995 (5/91? CONNECT Newsletters, Summer 91, 3/21/95)
- HR CONNECT (5/14/92)
- Black CONNECT for black CEO's (9/14/92)
- CFO CONNECT (7/20/93)
- Defense Conversion Roundtable (7/28/93)
- Crossborder CONNECT (12/93)
- Athena (1997-98?)—Does anyone recall a date???

## Springboard Program Formalized in 1993

- Very informal counseling of entrepreneurs and companies by office staff in the late 1980's
  - "CONNECT Announces new Company Counseling Program to provide personalized assistance to selected high tech companies" (Fall 1986 Newsletter)
- CONNECT Champions announced in 1988
  - a group of experienced SD executives providing pro-bono assistance to new entrepreneurs prior to the SD Technology Financial Forum.
  - "They read business plans, visited companies, and helped many entrepreneurs with their presentations." (Spring '88 newsletter)
- First Springboard Panel convened on 8/26/93
  - Program originally conceived as "First Fridays"
  - "at least once a month, CONNECT will invite an entrepreneur to make a presentation to a select group of CONNECT sponsors who will provide feedback and suggestions on the next steps the entrepreneur should take."
  - First presenter was George Liggins, President of Bacton Assay (I gather he was also a black entrepreneur, as there is evidence that he started the Black CONNECT SIG as well. CL)
  - The twelve invited participants that day were:
    - Harry Benter, Merrill Lynch
    - Tom Gable, COB/CEO, The Gable Group
    - Merril Gersten, MD
    - Neil Martin, Brown, Martin, Haller & McClain
    - Peter Preuss, The Preuss Foundation
    - Paul Richey, EVP Owen-Joseph Asset Management, RSF
    - John Volker, VP, Bank of America
    - Robert Weaver, Partner, Deloitte & Touche
- Feedback from panelists (Tom Gable among others) was to name this program!
- The name Springboard came into usage by 11/3/93 invitation
- 15 companies assisted in first year, 1993
- First Springboard Luncheon, 7/27/94 to showcase the first entrepreneurs assisted and thank participants.



#### Bacton Assay

- product was HDL cholesterol test
- CL gathers from other archival material that Founder George Liggins was a black entrepreneur

#### Health & Performance Engineering

- multimedia delivery of health information and wellness monitoring
- Dr. Joseph Risser, no info on this presenter

#### Trauma Products

- plasma volume expander blood substitute for trauma care
- Founder Dr. Kurt Gehlsen was a local ER physician

#### OIC

- multimedia trade show presentations
- Shirley de Rose & David Sherrell, presenters (no info)

#### Synchrony Applied Healthsciences

- device to regulate biorhythms and induce sleep
- Presenter Dr. Roger Cole is former UCSD research scientist, Dept. of Psychiatry

#### Interactive Simulations

- Sculpt, new computer graphics software tools for molecular modeling & visualization of proteins
- Founder Dr. Mark Surles is NSF Post-doctoral Fellow working at SDSC

#### ElectriCiti

- one of the first ISP's in San Diego
- Founder Chris Allen presented (no info)

#### Virage Inc.

- Semantic retrieval technology for multimedia information systems (database management systems for images)
- Founder Dr. Ramesh Jain is UCSD Prof. in Dept. of Electrical & Computer Engineering

Source: 1993-1995 Springboard Archival Binders



#### Space Electronics Inc.

- RAD-PAK, radiation tolerant microelectronics components, originally patented by Kodak
- Founders Dave Strobel and Robert Czajkowski from SAIC

#### Network Interface Corp./Prisa Networks

- Fibre Channel, a high speed network interface components
- Founder Marc Friedmann was VP Network Products, AMCC

#### DeposiTech

- PlasmaPlate vacuum metallization services for high density IC packages
- Co-Founder Doane is local consultant working with Co-Founder Ray Rust, a Bell Labs scientist based in VA

#### In/Form Software Inc.

- personalized patient consent and treatment plan communication software
  - Founders Dr. Merrel Olesen & Dr. Gary Williams were clinicians at Scripps Clinic

#### Glycobiology Institute

- diagnostic test kits for carbohydrates
- Founder David Pyrce came from a biotech co in N. Calif.

#### Wright Strategies

- Using Apple Newton PDA's to gather market research information
- Founder Jay Wright was a UCSD undergraduate

#### Acquam Internacional, S.A.

commercial farming of abalone off San Diego and Mexico Coast

#### NOTES:

- Archival material indicates there was very little advance coaching given to these presenters
- Quality of business plans varied widely across the board
- Presentations went over the time limit (Liggins took 30 min(!) and panelists commented that it was way too long...)

Source: 1993-1995 Springboard Archival Binders



- Quarterly newsletters (Fall 1985 through Summer 1992)
  - 11x17 glossy paper folded in half, professionally done
  - highlighted community news, listed sponsors, new members, upcoming events, highlighted UCSD research that would be of interest to CONNECT community
- Bill's Biotech Letter, a weekly newsletter started in 3/92
  - a summary of whatever news came to Bill O.'s attention that week
  - faxed to a select audience every week. By 1995, the fax list consisted of approximately 500 names.
  - Vol. No. 1 no longer exists; No. 9 is the earliest version archived and dates from 5/3/92. None were archived but we have unearthed some from MLW's files
- CONNECT Newsletter Gets A New Look, March 1995 onwards
  - Matt Small, Editor (3/95-6/95), the Teesha Hahn (95-97 and beyond?)
  - Guest Commentaries added in addition to the "From the Director" Column
  - CONNECT's web site started in July, 1995 (CL doesn't know if newsletter material made it onto the web site...)
  - Delivery changed from Fax to Email in ??? (mid-90's?)
- FOX CONNECT
  - a relatively late development that came into being during Fred Cutler's time (2000 onwards...)

### Other Notable Firsts...

- CONNECT Logo Trademarked
  - Winter 1988 newsletter carried the words "Trademarked by the Regents of the University of California
- UCSD Establishes a Technology Transfer Office (4/1/89)
  - Martin Rachmeler, former Director of Northwestern U.'s Tech Transfer Program, hired to be Director
  - UCSD TTO actually served coordination functions, as OTT still handled all licensing matters until 9/95. Marty R. was a campus facilitator and OTT go-between for years before there was a decision to make UCSD TTO into an autonomous entity in 1995 (Source: C.L.'s knowledge of this, through conversations with Marty R. and working in UCSD TTO in mid-90's)
- Dick Atkinson invited Vice-President Dan Quayle, Chair of the Council on Competitiveness, to San Diego to learn about CONNECT and its innovative programs to link the university with industry. Quayle toured Qualcomm with Irwin Jacobs (7/19/89)
- First Hybritech begatting chart dates from 1989 (Daryl Mitton, Dir., SDSU's Entrepreneurial Management Center working paper, "The Pattern of Proliferation of Biotech Firms in the San Diego Area", an insert into CP Forum binder, 11/89
- First LInkabit begatting chart dates from 7/91 (Fall 1991 CONNECT newsletter)
- Bill Otterson wins 1991 E&Y Entrepreneur of the Year Award
- In 1992, the quarterly CONNECT newsletters turned into a weekly "Bill Otterson Biotech Letter" faxed to selected SD leaders and CONNECT membership. Bill's Editorial Page made it debut sometime between 10/92 and 11/92.

# INCOMPLETE!! CONNECT's Public Policy Initiatives (early-mid 1990's)

- Biomedical Industry Council and San Diego Biocommerce Association created over water issue, 1991
- First statewide business and legislative issues forum, CalBioSummit '92, held in 10/92. Issues of concern included:
  - Air quality regulations
  - workers compensation reform
  - Ward Valley
- Gov. Wilson announced the formation of California Biotechnology Advisory Council at CalBioSummit '93
  - 7 SD CEO's asked to serve
- Ira Magaziner, White House Chief Policy Advisor addressed 600+ industry audience via satellite on Pres. Clinton's Health Security Plan (date? '93?)
  - SD industry concerns aired
  - Magaziner invited SD industry leaders to White House
  - 6/14/95 White House Conference on Small Business—Bill O. and John Neal as SD reps
- Ward Valley
  - must have been simmering all through the 1990's, as earliest mention was in Bill's Biotech Letter, v. 9, 5/3/92
  - Lots of mention of Ward Valley in 1995 newsletters
  - I need to work on this further...CL
- CONNECT/Price Waterhouse FDA survey (1994-95)
  - All 386 West Coast life sciences cos surveyed on the issue of FDA reform
  - Results presented to House Subcommittee on Oversight and Investigations, 5/25/95

### **CONNECT Goes Global**

- CONNECT Goes to Tokyo (8/91). Bank of Tokyo invited a CONNECT delegation to go present to Japanese pharma cos.
  - David Hale, Pres. Gensia
  - Ed Maggio, Pres. Synbiotics
  - Makoto Nonaka, Pres. 

    ☐ Institute for Allergy & Immunology
  - David Doyle, Managing Partner of Baker & McKenzie's SD office
  - Paul Hall, Partner Ernst & Young
  - Bill Otterson, Exec. Dir. CONNECT
- Vladivostok Initiatives (1995)
- Bill Goes to Switzerland... (dates anyone?)
- CONNECT Scotland
  - formally launched 1996
- CONNECT Sweden
  - Study group came to UCSD in summer 1997
  - formally launched 1998
- CONNECT New Zealand and CONNECT Taiwan
  - both launched in Summer 2005}

## Global CONNECT Launched at UCSD (2003)

- Vision of Global CONNECT is to:
  - Lead in the theory, practice, and implementation of regional innovation systems.
  - Enhance UCSD's reputation internationally as a research university at the leading edge of relevance to economic development.
  - Strengthen the web of connections between UCSD, San Diego and peer regions worldwide.
  - Promote prosperity for the San Diego region by facilitating local market-entry for foreign high-tech companies.
- Global CONNECT Annual Meetings to date:
  - First Annual Meeting, La Jolla, December 2003
  - Second Annual Meeting, London, December 2004
  - (upcoming) Third Annual Meeting, Taipei, December 2005
- 28 Founding Members

## Global CONNECT Partners and Collaborators (Founding Members listed in Red)

Atamo (Australia)

ATP Innovations (Australia)

Australian Institute for Commercialization

BioPartners Cologne

BusinessACT (Australia)

CIAD (Mexico)

CICESE-CONACYT

Canadian Consulate General

Canterbury Development Corporation (NZ)

CONNECT Auckland (NZ)

**CONNECT Norway** 

**CONNECT Sweden** 

Economic Development Partnership of Alabama

GlobeLink, LLC

Gyeonggi Small and Medium Business Center (Korea)

ILIC Pusan National University (Korea)

INTEC (Spokane)

Industrial Research Limited (NZ)

Institute for Information Industry (Taiwan)

Integra International

InterTrade Ireland

Kauffman Foundation

Los Alamos National Lab

Monash University (Melbourne)

New Economy Strategies (USA)

New Zealand Trade & Enterprise

Oklahoma State University Cooperative Extension Service

Queensland Government Trade and Investment Office

SDA Bocconi School of Management (Italy)

Saxony Economic Development Council (Germany)

Scotland CONNECT

South East England Development Agency

Stockholm School of Economics

Swenson Advisors (USA)

TLM Digiport Villeneuve (France)

Technion – Israel Institute of Technology

**UC Davis CONNECT** 

**UC Riverside CONNECT** 

US Dept of Defense (CCAT)

University of British Columbia

University of Manchester

US Russia Center for Entrepreneurship

Washington University, St. Louis

Worldwide Universities Network

### "UCSD Establishes Program To Attract High Tech Entrepreneurs", CONNECT Press Release, 4/1/1985

- The UCSD Program in Technology and Entrepreneurship, announced by Chancellor Dick Atkinson
- Founding Advisory Committee Members:
  - Daniel Pegg, President, Economic Development Corporation
  - Irwin Jacobs, Former Chairman of the Board, MA/COM Linkabit
  - David Hale, President, Hybritech
  - R.B. "Buzz" Woolley, President, Girard Capital, Inc.
  - Robert Weaver, Partner, Deloitte, Haskins & Sells
  - Lea Rudee, Dean, UCSD School of Engineering
- 35 Founding Sponsors made a one-time minimum contribution of \$2,500 towards initial costs of establishing this program, which will be self-sustaining through course and seminar fees, outside contracts & grants
- 35 Founding Sponsors solicited by 5/20/1985
- "An Executive Director for the program is expected to be named within a few weeks."