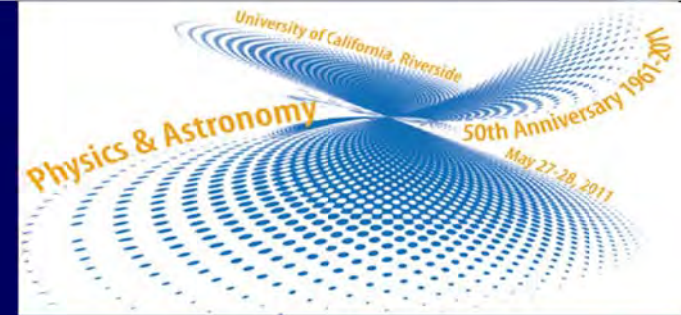


**But, was it Physics?  
Memorable Excerpts from a  
*not quite Physics* Career**



**History**

**Process Control and the Paper Industry**

**Beer and the National Hockey League**

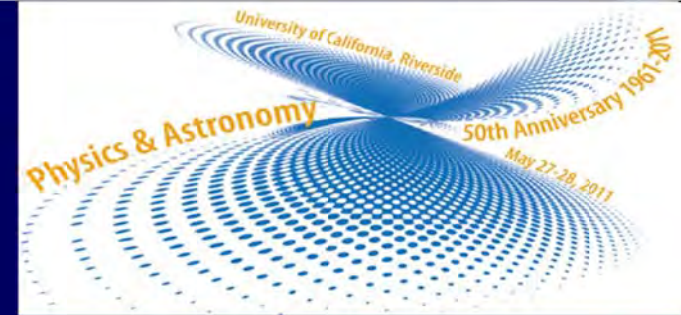
**Balloons and Supercomputers**

**A Tale of Two Cities: NATO and Networks in Russia**

**Sick Kids**

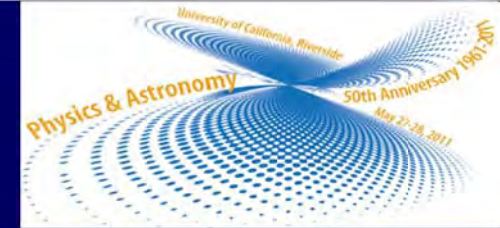
# History

- **PhD UCR 1969 under Bob Poe**
- **Post doc at U of Toronto 1969-1972**
- **Consulting 1972-74, 1991-95 (NATO)**
- ***Real Jobs.....***
  - **Paper Company (Papetrie Reed Lteé)**
  - **Network Software Company (BNSR)**
  - **Beer Company (Molson)**
  - **University of Toronto**
  - **Sick Kids (The Hospital for Sick Children)**





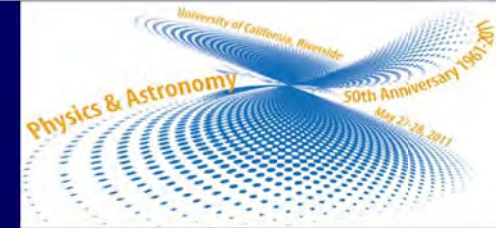
# Beer and the National Hockey League



- Molson (now Molson Coors) makes iconic Canadian beer brands
- They also owned (and now do again) the Montreal Canadiens hockey team
- Definitely encouraged employees to become beer experts
- I've probably tried 500 different beers (and I continue to!!!)



# Beer and the National Hockey League

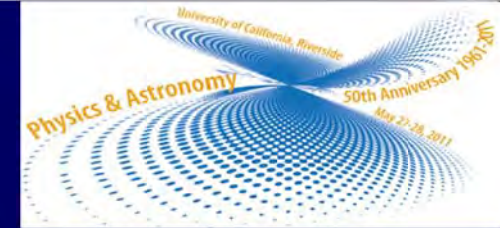


- **I was Manager, Consulting Services**
- **One of my tasks was to assess scouting systems around the league**
- **Used to track prospects regarding**
  - **Physical/mental: attitude, age, height , weight, strength, ruggedness**
  - **Hockey skills: skating, passing, shooting, checking, scoring, defense**
- **Traveled to a number of teams to assess their systems**





# Beer and the National Hockey League

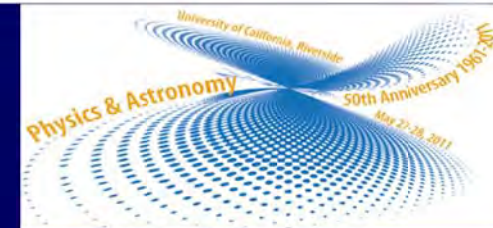


- League is competitive on the ice, cooperative in the front office
- Local systems would be modified for Montreal's use
- Was treated very well, saw many games from the owner's box
- Settled on a hybrid system





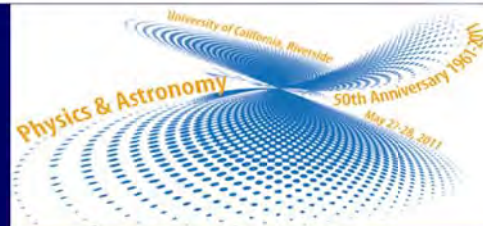
# Supercomputers, Balloons and Leinenkugel Beer



- Director, Computing Services at U of Toronto
- A number of users needed serious computing power
- Before massively parallel really took off, Cray was the solution du jour
- Finagled money from every source to get a Cray X-MP24



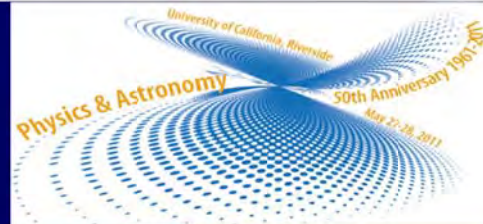
# Supercomputers, Balloons and Leinenkugel Beer



- **Refurbished XMP machine came in from Chippewa Falls, WI**
- **The mainframe weighed 5900 pounds with a very small footprint**
- **To be installed on a second story raised floor with a low load limit**
- **A 3/4 inch steel plate needed to spread the load**
- **Required two large and very heavy motor generators in the penthouse**
- **Needed to be dropped through a hole cut in the ceiling**
- **Hole was a long way from the street where the crane could park**

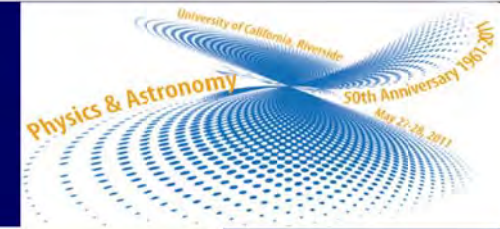


# Supercomputers, Balloons and Leinenkugel Beer



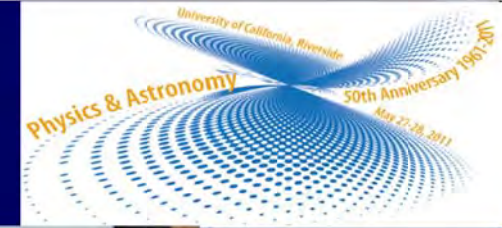


# Supercomputers, Balloons and Leinenkugel Beer



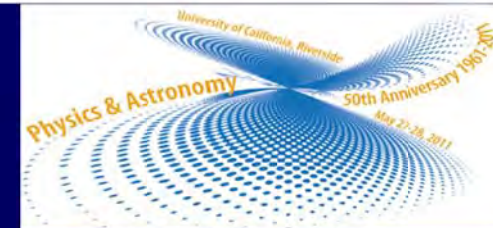


# Supercomputers, Balloons and Leinenkugel Beer

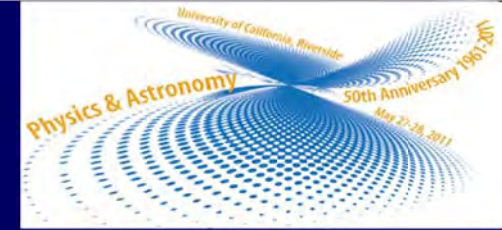




# Supercomputers, Balloons and Leinenkugel Beer

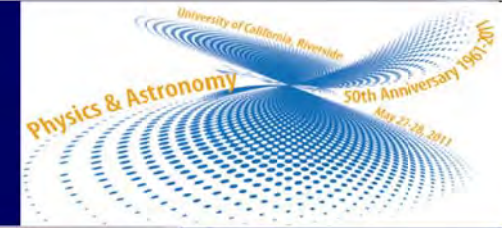


# Supercomputers, Balloons and Leinenkugel Beer



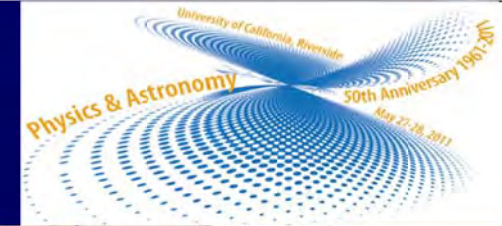


# Supercomputers, Balloons and Leinenkugel Beer



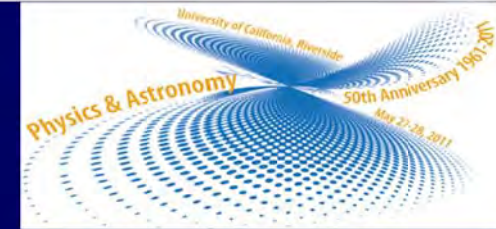


# Supercomputers, Balloons and Leinenkugel Beer





# Supercomputers, Balloons and Leinenkugel Beer




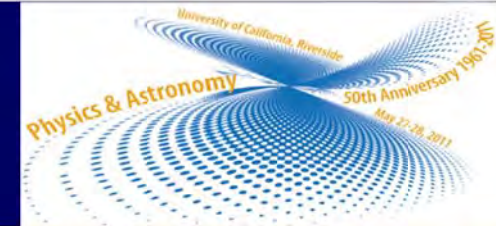
When the Cray went through the hole in the roof, we released blue and white (UT) colours helium filled balloons through the hole.





# Supercomputers, Balloons and Leinenkugel Beer

- Cray guys brought a few cases of Leinenkugel beer from Chippewa Falls (an *illegal* move).
- After the Cray hit the floor, we all then drank the Leinenkugel, a good beer by Molson's (or anyone's standards)



The image shows a condensation-covered bottle of Leinenkugel's Original beer next to a tall glass filled with beer and a thick head of foam. The bottle label features the Leinenkugel's logo and the text 'The Pride of Chippewa Falls'. A circular seal at the bottom of the bottle reads 'JLBC' and 'LEINENKUGEL BREWING COMPANY'.



The Leinenkugel's Original logo, featuring a red banner with the brand name in white cursive and a Native American woman's profile in a feathered headdress to the left.

*The Pride of Chippewa Falls*

ABV: 4.6%  
IBU: 17  
Calories: 152  
Carb. grams: 13.9  
Protein grams: 1.0  
Fat grams: 0.0  
Malts: Three Pale  
Hops: Cluster  
Serving temperature: 45°  
Other: First brewed in 1867  
Availability: Year-round

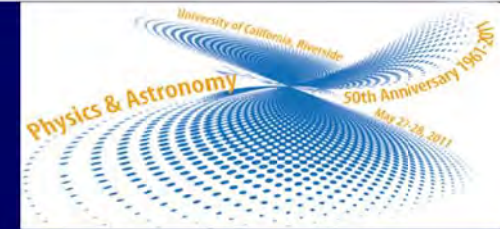
\*Based on a 12-oz. serving

Awards Won: Bronze 1988 & 1998 Great American Beer Festival® American Premium Pilsner and American Style Premium Lager categories; Gold 1987 Great American Beer Festival® American Light Lager category.

\*ABV: Alcohol By Volume



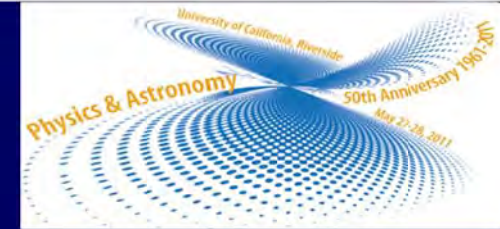
## A Tale of Two Cities: NATO and Networks in Russia



- I had been involved in national and provincial internet initiatives in Canada for many years
- Because of this, the Computer Networking Panel of the NATO Science Division asked me to be a consultant
- Wound up dealing with possible network projects in Russia (definitely *did not* speak Russian!!)



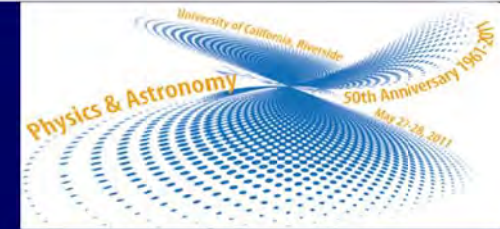
# **A Tale of Two Cities: NATO and Networks in Russia**



- **NATO somehow let it be known that they would consider network proposals, and set parameters.**
- **All proposals required a NATO country sponsor, collaborative projects and a commitment of funds from other sources**
- **My task was to do initial screening of the proposals and present my conclusions to the committee for a decision**
- **For those that passed this stage, I helped the Russian proposing organizations hone the proposals**
- **The organizations were Universities, consortia, RAS branches.**

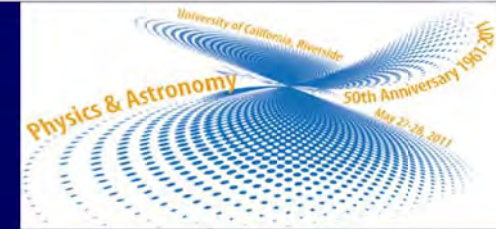


# **A Tale of Two Cities: NATO and Networks in Russia**



- **All the initial work was done via e-mail, with the Committee presentations done in Brussels**
- **In addition, for recommended proposals, I was to evaluate the organizations on site considering:**
  - **a) their capability of actually installing and utilizing the networks proposed and**
  - **b) how honest the proposals were and how vaguely trustworthy the proposers were. (Proposers did not know this!!!)**

# A Tale of Two Cities: NATO and Networks in Russia

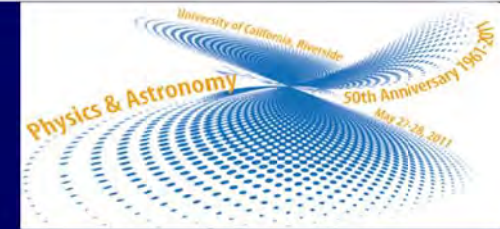


- Took two trips to Russia to evaluate proposals, both in the boonies
- One trip was to Ivanovo, the other to Vladivostok





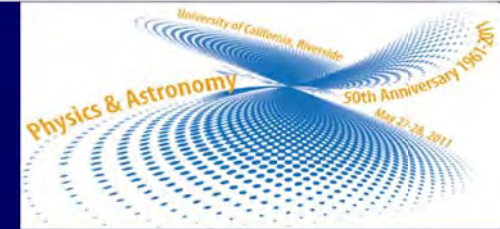
## **A Tale of Two Cities: NATO and Networks in Russia**



- **Cities were effectively on opposite sides of the country**
- **Both proposals were for large metro area networks for a number of organizations, all still struggling to find their place in the sun after the Soviet collapse.**
- **The projects, proposing organizations and the two cities were drastically different, but about the same size (400 to 500K)**
- **Trips were enlightening, useful, and regarding certain non-project aspects, incredibly sad and disheartening.**



# A Tale of Two Cities: NATO and Networks in Russia

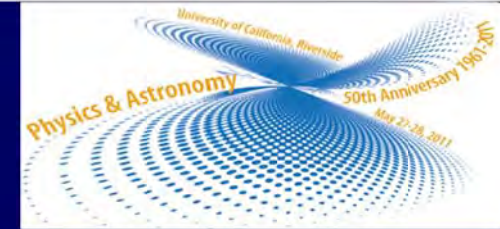


- In Ivanovo, traditionally called the textile capital of Russia, lead group was the Institute of Solution Chemistry of the RAS
- A number of others included the Ivanovo State University, Medical Academy, Architectural Academy, a research library and a Fashion and Design Academy

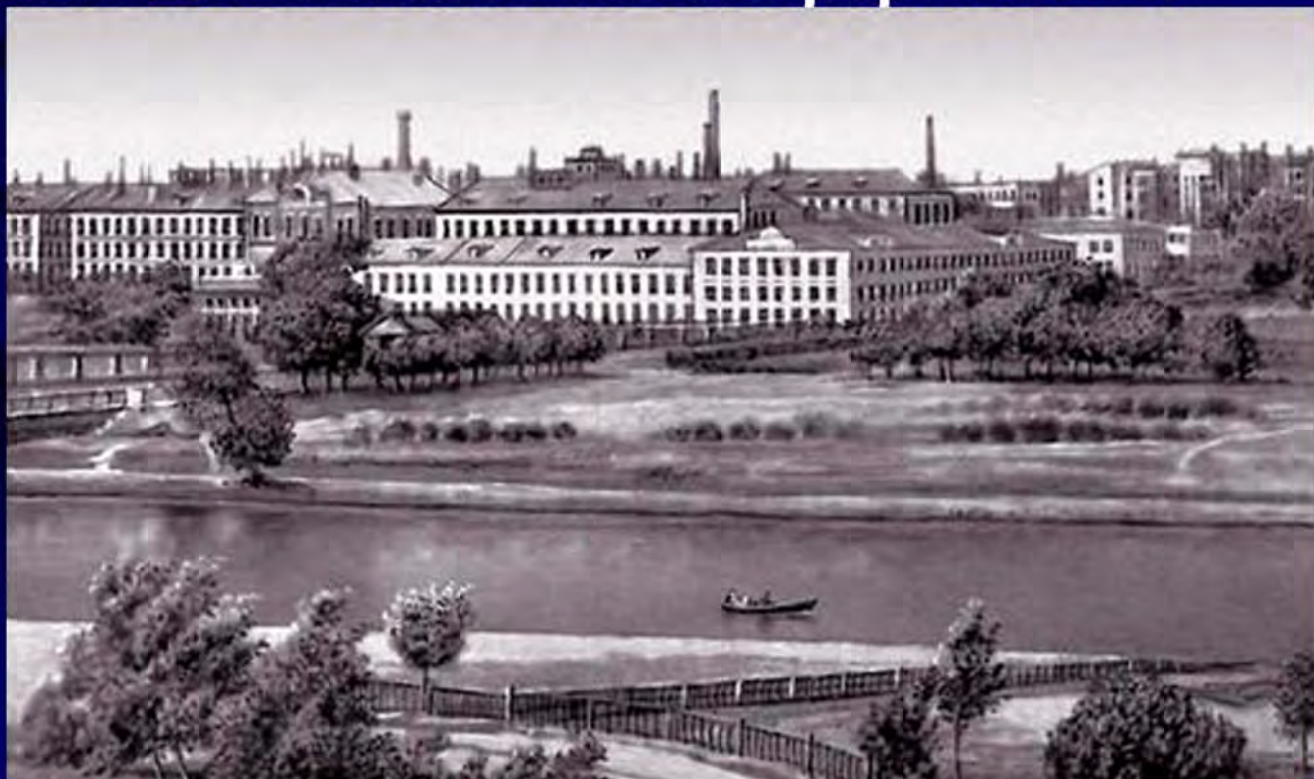




# A Tale of Two Cities: NATO and Networks in Russia

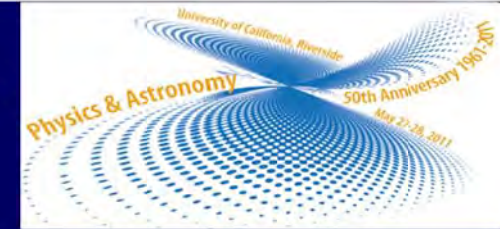


- With the Soviet collapse, Kazakhstan stopped growing cotton which was the artificially cheap primary feedstock for Ivanovo's textile mills (some really massive)
- Most textile mills are closed and the population is declining





# A Tale of Two Cities: NATO and Networks in Russia

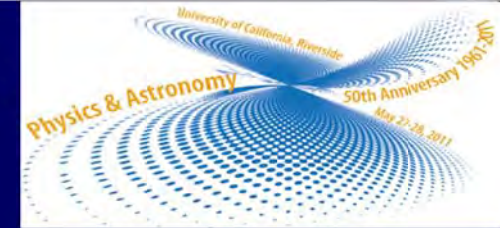


- **Ivanovo, part of the *Golden Ring* of picturesque towns around Moscow is not so golden.**
- **It was and is a true Soviet type industrial city, with a heritage of pollution, dismal apartment blocks, gloomy, dirty streets and much unemployment**
- **Once elegant dachas outside of town were crumbling**

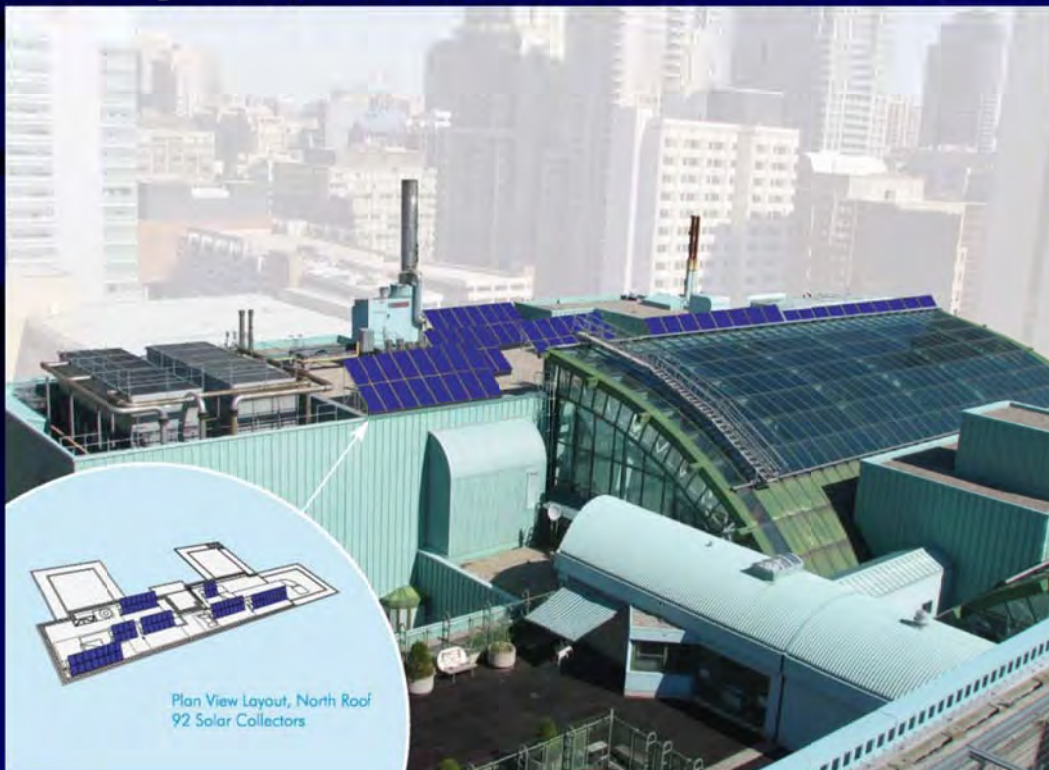




# A Tale of Two Cities: NATO and Networks in Russia

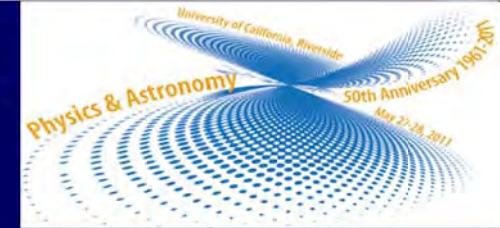


- A wild ride to see the Volga at *Plus* nearly got me either killed or arrested
- Meeting with the head physician of the “Women and Children Hospital” who wanted to know about my hospital, “Sick Kids” was embarrassing and sad





# A Tale of Two Cities: NATO and Networks in Russia

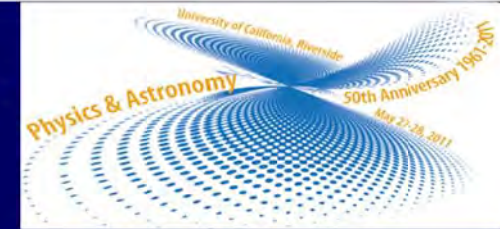


- The Vladivostok proposal and the city were quite a different kettle of fish from Ivanovo
- First, it is one of Russia's more attractive cities, situated on hills overlooking the Golden Horn Bay





# A Tale of Two Cities: NATO and Networks in Russia

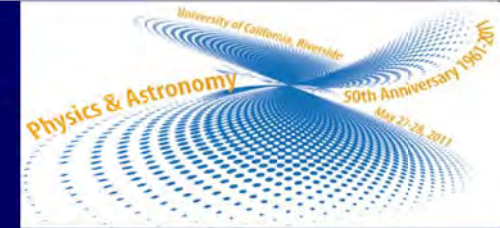


- Second, it has been a port and the gateway to the Pacific for hundreds of years (hard to get to!!)
- Lead group was the Vladivostok State University of Economics and Services (VVSU)
- VVSU Rector was very entrepreneurial





# A Tale of Two Cities: NATO and Networks in Russia

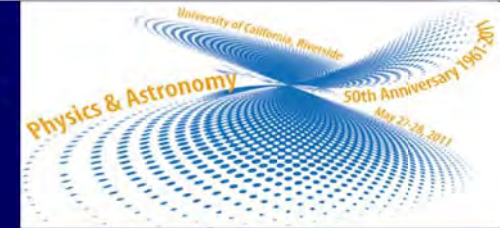


- Others on the metro area network were the Institute of Automation and Control Processes of FEBRAS and a Maritime Academy
- Project was to set up a joint MBA program between Cal State Hayward, the NATO country collaborator and VVSU using a satellite link
- Currently, VVSU seems to be quite successful





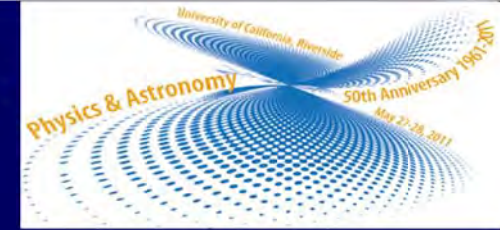
# A Tale of Two Cities: NATO and Networks in Russia



- **Additional snippets**
  - Kept being pushed to drink vodka
  - Visit to a flea market of sorts in a neighboring town was very depressing
  - Though the visit was in March, still could walk over a mile out on the sea ice



# A Tale of Two Cities: NATO and Networks in Russia



- **Proposal was approved after much negotiation and a visit to Hayward**
- **Progress reports were satisfactory**
- **A little intrigue after the fact**