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OSCAR SEAWELL

BY CHELSEA SCHESKE

MAY 2012

**Biographical Sketch:** Oscar D. Seawell was born in the United States of America. In 1947 he received a Bachelor of Arts (Hons.) in mathematics and physics from Whitman College in Walla Walla, Washington.

In 1943-44, while pursuing undergraduate studies at the University of Utah, Salt Lake City, Seawell participated in a specialized training program for the United States Army in advanced civil engineering. Seawell's post-graduate work was undertaken while he was enrolled at the Massachusetts Institute of Technology in Cambridge where, in 1948, he graduated with a Master of Science degree in Civil Engineering.

Seawell took jobs in various streams of engineering - construction for two years, nuclear engineering for eleven years and for five years he worked in systems engineering, during this time he remained in association with the U.S. Army Reserve, Corps of Engineers from 1949 to 1983 rising to the rank of Lieutenant Colonel.

His career as an educator began at the University of Idaho where he taught engineering from 1952 to 1956. In 1956 to 1957, and also from 1961 to 1962, he taught an engineering extension course in nuclear reactor design at the University of California, Los Angeles. After this he taught at San Jose State College in 1964-1965.

Seawall began teaching at the University of Saskatchewan, Regina Campus in 1971 when he accepted an appointment as Professor of Mechanical Engineering. During his tenure Seawell was instrumental in the planning of the new Industrial Systems Engineering Program, and served as its coordinator from 1977-1985. Seawell also served on a number of university and faculty committees, and was granted the status of Professor Emeritus of Systems Engineering in 1989 upon his retirement. He continues to reside in Regina.

**Scope and content:** This collection consists of research and teaching materials generated by engineering professor Oscar D. Seawell before and during his tenure at the University of Regina, and for several years afterwards. The date range is roughly 1965 to 1991. Subjects range from nuclear power, energy and industry, oil and gas, and food and agriculture, and include files regarding the Canadian National Energy Program and the American Society for Engineering Education (ASEE). This collection also includes files related to committees Seawell sat on such as the Academic and Administrative Benefits Committee. Regarding the University of Regina there are files related to the Faculty of Engineering students and the University of Regina RRSP and pension information.

**Access Restrictions:** This private collection may contain university records that are subject to review before access may be granted. Access to University records is governed by the *Local Authority Freedom of Information and Protection of Privacy Act*.

## Box 1

Some files of Oscar Seawell from membership in University of Regina Faculty Association, Pension and Fringe Benefits Committee

Elimination of CPP starting for former retirees – for discussion in both committees (Academic and Administrative Benefits Committee and University of Regina Faculty Association Pension and Fringe Benefits Committee)

Elimination of CPP Reduction from Pension Plan – for current members and retirees

Pension Committee Report to URFA Executive May 1988

Statistics Canada data on pension benefits (note: circulate to committee members who wish to see them)

RRSP and Pension Brochures from Revenue Canada

Retirement – My proposed plan for incentive pre-retirement leave to John Turtle

Faculty Association – Retirement Negotiations re: Early Retirement and Removal of Mandatory Retirement

Mandatory Retirement

Academic and Administrative Benefits Committee, University of Regina – Pension Information

Correspondence and Statements re: pension

Pension management firm – Phillips, Hager and North Ltd. (note: manages University of Regina Pension Fund)

SEI Funds Evaluation Services – University of Regina Pension Trust

Faculty of Engineering Students Reports (samples saved)

Fourth year project report in EN 413 – Industrial Systems Engineering Project and Communications

Engineering reports prepared by students in Industrial Systems Engineering at the University of Regina

Co-op work term reports by students in Faculty of Engineering, University of Regina

EN 432 Systems Management and Optimization

Starting 81S 1981 -1983

81S and 82S Sharm Fossenier (background and successive classes)

Starting 83S Sanjeev Bhole

Schedule and Planning

Lectures 86S – by Oscar Seawell 1986

Lectures in 86S – re: gas blending problem and hand solutions 1986

85S and 86S – Gas blending assignments and a student's papers – prepared by Oscar Seawell, using information from Co-op Refinery 1985-1986

1986 Exam #3 (Final Exam) and solutions for exam 1986

Exams 86S – Test #1 1986

Lectures – 85S 1985

Problem Solutions (Chapters 4 and 12) – 85S 1985

Schedule and Class Info – 85S 1985

## Box 2

Grades and Student List – 85S	1985
Exam solutions and students taking text – 85S	1985
Problems assigned – 85S	1985
Problem Solutions (Chapter 7) LP and related gasoline blending – 85S	1985
Reference materials passed out – 85S	1985
User Guide for Computer Packages	1984 - 1985
Admin 270 Schedule (used for consideration in EN 432 since ISE students took Admin 270)	1985

#### Nuclear Energy Files R through T

R2H2L – Liquid Metal Cooled Reactors  
 R2H2S – Salt Cooled Reactors  
 R2H2W B – Boiling Water Reactors  
 R2H2W B – Boiling Water – Big Rock – Consumers, GE  
 and Bechtel  
 R2H2W B – Boiling Water – Bodega Bay – Pacific Gas  
 and Electric Co. And GE  
 R2G2W B – Boiling Water – Dresden – Commonwealth  
 Edison and GE  
 R2H2W B – Boiling Water – Haskell Canyon – L.A.,  
 Pasadena and Allis Chalmers  
 R2H2W B Boiling Water – Humboldt Bay- Pacific Gas and  
 Electric Co., G.E., and Bechtel  
 R2H2W B – Boiling Water Reactor – LaCrosse, Dairyland  
 Power Coop., LaCrosse, Wisc., and Allis Chalmers  
 R2G2W B – Boiling Water – Pathfinder – Northern States  
 Power Co. and Allis Chalmers Mfg Co.  
 R2H2W H – Heavy Water Reactors  
 R2H2W P – Pressurized Water Reactors  
 R2H2WP – Pressurized Water Reactor – Diablo Canyon  
 (San Luis Obispo) – Pacific Gas and Electric Co.  
 R2H2WP – Pressurized Water Reactor at Malibu for LA  
 Department of Water and Power  
 R2H2WP – Pressurized Water Reactor at Camp  
 Pendleton – Southern California Edison, San Diego  
 Gas and Electric, and Westinghouse San Onofre  
 Nuclear Generating Station  
 R2H2W S – Superheated Steam Reactors  
 R2MIC Reactors – Chemical Compounds Production  
 R2MIR Reactors – Radioisotope Production (including  
 High Flux Isotope Reactor)  
 R2N F – Fast Reactors  
 R2N F – Fast Reactor – Enrico Fermi  
 R2N F – Fast Reactors – FARET  
 R2N F – Fast Reactors – SEFOR  
 R2N S – Spectral Shift Reactors  
 R2PIA – Aircraft Reactors  
 R2PIAIR2 – Propulsion Reactors – Rockets (for space  
 travel boosters)  
 R2PIAIR2 - OSCAG – Nuclear Rocket Transient  
 Simulation Program  
 R2PIAIRZ – KIWI – Nuclear Rocket Reactor  
 R2PIAIR2 – PHOEBUS – Nuclear Rocket  
 R2PIAIR2 – RIFT – Reactor In Flight Test

Box 3

	R2PIG – Propulsion Reactors – General R2PIS – Propulsion Reactors for Space and Aerospace R2PIW – Water Surface Propulsion Reactors R2PIW – Nuclear Ship Savannah R2P2 – Reactor Proposals R2RITG – Test Reactors – General R2RITS – Tower Shielding Reactor R2R2G Reactors – Research – General R2R2G TRIGA and FLAIR R2R2K – SPERT R2RK – TREAT R2R2T – Research Reactors – Training Thermal Analyses of Spacecraft TIA2 Aerodynamic Heating and Burnup and Ablation Thermal – Boiling heat transfer and 2 phase flow Thermal Data Thermal Data – Organics Thermal Data – Sodium and other alkali metals used as coolant TIPI Power Cycles Thermal Analyzer TITI Thermal Stress Thermal Texts of interest (T1) Thermonuclear Energy (T2) Training (T3) U.S. AEC Fellowships and Training Courses (T3) Training – Films Training – Safeguards Transportation of Radioactive Materials (T4R) Thermoelectric (T5) Thermionic (T6) (see T5 Thermionic – note at bottom of sheet written 2-10-59)
Empty folder	
Box 4	EN 451 Materials re: Canada and National Energy Program Document list from boxes used for reference in Energy Systems class and for energy interests of Oscar Seawell - EN 451 –National Energy Program summary National Energy Program National Energy Program re: Canada – US Relations NEP Info for EN 451 Lecture, Federal and Provincial interaction and export Western Canada and National Energy Program National Energy Program – some of the packages of articles prepared by Oscar Seawell for student use – loaned to students in EN 451, Energy Systems  Canadian Energy Canadian Energy documents and papers Articles on Canadian energy projects Western Canada energy articles Uranium and Natural Gas Prices Energy in United States EN 451 – Energy Systems – Case Studies – University of

Washington Program in Social Management of  
Technology

Oil Prices and Distribution Resources and Processing Early 1980s

Materials distributed to EN 451 Energy Systems students  
Hydro  
Heavy Oil Upgrades  
Oil and Gas Prices  
Oil, Prices and Distribution (OPEC)

Energy Newspaper Articles

Uranium City (Beaver Lodge mine) and El Dorado Nuclear  
(General company information)  
Nuclear Wastes (environmental concerns)  
Nuclear Energy Articles  
Energy  
Energy (including upgrades and Sask Power  
Energy – NEP Candu  
Energy articles to university for filing  
Oil and Gas – Canada Lands  
Natural Gas Articles and Pipeline Politics  
Articles on energy, water and industries using energy  
General Articles – some environment, some human  
factors

Land Use Requirement – Environment and land use (used in  
EN 451, Energy Systems)

Environment legislation and land use reviewed as related  
to energy systems in EN 451, Energy systems class

Nuclear Power and the Environment

Nuclear Environment Research and Information

Box 5

Nuclear reactor files used for Energy Systems class and energy 1971-1989

research at University of Regina by Oscar Seawell  
Accident Statistics and Life expectancies  
Comparative risks of different methods of generating  
electricity  
AECL Brocures – Candu Reactors (also see AECL files  
under Research Organization in 4<sup>th</sup> file drawer)  
Condu Reactor data from AECL and from Dong  
Vandenberghe  
Decommissioning Candu Reactors  
Candu Fuel Cycles and U.S. Fuel Cycles  
Thorium Cycle  
Canadian Uranium Supply and Requirements  
Nuclear Power – Basic info – for EN 451  
Nuclear Reactors and Energy Demand and Liquid Metal  
Cooled Reactors – ASME Papers  
Nuclear Reactors in Canada and Canadian supplied  
reactors elsewhere

1982 Winter

Nuclear Power in Canada – Overall Considerations  
 Misc Nuclear Energy presentations and views – for and against  
 Chernobyl Reactor Accident  
 U.S. Department of Energy Richland Operations Office  
 Spatial Reactor Models and Space-Time Kinetics of  
 Candu Systems  
 Reactor Thermal Simulation

#### Nuclear Waste

Box 6	Nuclear Waste Management - Federal Environmental Assessment Review Office – includes correspondence Waste Disposal – Current Information Waste Storage Information – Nuclear Waste management – shipping and disposal Geological Exploration for Nuclear Waste Storage Box 2 of 3 – Nuclear energy files of Oscar Seawell R1 through R2H2G – mostly generated before coming to University of Regina in 1971, but referenced in classes and research while at the University of Regina
Box 7	RIA Airborne Radiation RIB2 Biological Effects of Radiation RIEI Materials – Radiation Effects RIEI – Radiation Effects Laboratory – Marquardt – 1960 RIFI – Fallout RIF3 – Food Toxicology and Processing by Radiation RIG – Radiation – General RIH – Radiation Hazards RIR – Radioactive Waste RISI – Radiation – Secondary Radiation Rainout RIS7 – Radiation in Space RIT – Radiation Tolerances R2EIA – Auxiliary Power Reactors (such as SNAP, also see P2ASZ) R2EIA – SNAP 50 and SPUR (SNAP: Systems for Nuclear Auxiliary Power (for space), SPUR: Space Power Unit Reactor) R2EIC – Converter Reactor Concepts R2EIG – Electric Power Production – General Reactor Information R2EIM – Military Reactors R2EIR – Remote Station Power Reactors – Antarctica R2EISI – Small Size Nuclear Power Plant (5 to 40 Mwe) R2EISS2 – Stationary Power Reactors R2EIU – Underwater Power Reactors
Box 8	R2E2C2 – Critical Facilities R2G – Reactors – General (includes notes re: Oscar Seawell's work on nuclear reactors, in TID-8200) R2HIP – Process Heat Reactors R2HIW – Water Conversion Reactors (Saline Water Conversion) R2H2F – LAMPRE (Los Alamos Molten Pu Reactor Exper.) R2H2F – LFBR: Liquid Fluidized Bed Reactor

## R2H2G – Gas Cooled Reactors

## ASEE Meetings and Information

Box 9	ASEE Awards and Nominations for Awards	
	ASEE Meetings and New Engineering Educators Program	
	ASEE North-Midwest Section (includes Manitoba)	
	ASEE Officers and Personnel – National and Zone II (Western) Organization	
	ASEE Pacific Section Bylaws	
	ASEE Pacific NW Section Meeting – Campus Activity Coordinator at University of Regina	
	ASEE Pacific NW Section Meeting – Calgary, Alberta; all Planning Meeting – Spokane, Washington	May 11-13, 1989; September 14, 1988
	ASEE Pacific NW Section Meeting – Gonzaga	April 21-23, 1988
	ASEE Pacific NW Regional Meeting – Vancouver, BC	May 1987
	ASEE Pacific NW Section Planning Meeting – Portland, Oregon	17 October 1986
	ASEE Pacific NW Section Meeting – Cornwallis, Oregon; Planning Meeting – Spokane, Washington	April 1986; October 1985
	ASEE Pacific NW Section Meeting – Pullman, Washington; Campus Representative Meeting – Spokane, Washington	April 1985; October 1984
	ASEE Pacific NW Section Meeting – Seattle, Washington	April 28-30 April 1983
	ASEE Pacific NW Section Meeting – Oregon Institute of Technology, Klamath Falls, Oregon	30 April – 1 May 1982
	ASEE Pacific NW Section Meeting – University of Idaho	May 1981
	ASEE Pacific NW Section Meeting – Banff, AB	May 1980
	ASEE Pacific NW Section Meeting – Portland State University and University of Washington	May 1978; May 1979
	ASEE Pacific NW Section Meeting – WSU, Pullman	April 1977
	ASEE Pacific NW Section Meeting – Montana State University	May 1976
	ASEE Pacific NW Section Meeting – Seattle, Washington	4 November 1974
	ASEE Pacific NW Section Meeting – Oregon State University	May 1974
	ASEE Pacific NW Section Meeting – Coeur D'Alene	May 1973
	ASEE Pacific NW Section Meeting – Seattle	May 1972
	ASEE Pacific NW Section Newsletter	
	ASEE Computers in Education Division	
	ASEE Coop Education Division	
	ASEE General Information and Services	
	ASEE Mechanical Engineering Division	

Canadian National Energy Forum – Halifax	February 20 and 21, 1983
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Oscar Seawell notes and program information

Box 10	NUCON 76 – The Engineer and Nuclear Energy - Nuclear Energy in Canada	November 25, 1976
	Conference pamphlets and papers	
	A1F – Files and Filing System (used for 3 boxes of files)	
	A1A1L – Atomic Energy Commission (AEC) Licensing and Regulation	



Box 11

A1A3 – Awards  
 A1C2 – Contracts  
 A1I - Indemnity  
 A1P1 – Patents  
 A3 – Astrophysics and Cosmology and Space Travel  
 A3 – Atmospheres of other planets  
 B – Biology and Medicine – General  
 C1 – Chemistry  
 C1H – Hydrogen-Oxygen Reactions  
 C34 – Absorber Materials (Boron absorbs neutrons, so is  
 used in nuclear reactor control)  
 C3CG – Control Rods – General  
 C3G Control – General  
 A4 – Atomic and Nuclear Energy – General  
 Documents, books and drawings – Records and  
 information (includes public information)  
 DR – References – General  
 DW – Writing and English  
 E1 – Economics – Power Reactors  
 E1 – Economics – Nuclear Reactors – General  
 FC2 – Fuel Cycles  
 FD1 – Fuel Data  
 FE – Fuel Elements  
 FF2 – Fission Products  
 FP1 – Fuel Prices  
 FP2 – Fuel Processing and Fabrication  
 FR – Fuel – Raw Materials  
 FTP – Fuel – Plutonium  
 H1E1 – Excursions; Controlled Tests  
 H1F – Hazards - Fire  
 H1H – Hazards – US AEC and ACRS safety analyses  
 available  
 H1H – Hazards – Experimental Reactor at Saxton, Penn.  
 H1M – Hazards – Materials  
 H1G – Safety general  
 H2N – Nuclear Safety – General  
 H2R1 – Radiation Safety – General  
 IG – Instrumentation  
 M1I2 – Isotopes (including radioisotopes)  
 M1RG – Reactor Materials – General  
 M1RM – Moderator and Reflector Materials (Be and O<sub>2</sub>O)–  
 other than graphite  
 M1TM – Metals, Alloys, Hydrides  
 M2T – Misc Physics and Math Data – Bessel (J) and  
 Nusselt (memory uncertain re: N) functions

Box 12

M3 – Mechanics  
 M3DE – Explosions and Blasts (see also S3B – Blast  
 Protection)  
 M3DE – Plowshare Program (genome, shoal, and carryall)  
 ND – Nuclear Data and Experiments  
 NE – Nuclear Engineering  
 NT1 – Nuclear Theory – General  
 NT1 – Nuclear Theory – Void Effects  
 O1 – Operation and Maintenance of Reactors  
 O2A3 – Atomic Energy Commission (AEC) Organization –  
 General

02A3 – AEC Organization – Safety and regulation  
 02G1 – Organization – Government – General  
 02G2A – Governments of States – Arkansas – Agreement  
     to take on regulation of radioactive materials in State  
 02G2C – Governments of States (California)  
 02G2O – Governments of States (Oregon)  
 02G2T – Governments of States (Texas)  
 02 – Idaho Nuclear Corp. (Aerojet General and Allied  
     Nuclear Corporation)  
 02 – International Atomic Energy Agency  
 P2AS1 – Power Plants for Space Vehicles  
 P2AS2 – Power Plants for Sattellites (also see R2E1A –  
     Auxiliary Power Reactors - SNAP reactors)  
 P2P – Electric Power Sources  
 P2P – Isotope Generators (also see P2AS2 Power plants  
     for satellites)  
 P2R – Power Plants and Reactors for Space

Administrative and reference files – University of Regina

Alumni and Homecoming  
 Athletics  
 Audio Visual Aids  
 AV Services  
 Audit Regulations  
 Books 1988  
 Bookstore  
 Buddy Day  
 Bus – bus line going to University of Regina  
 CAD/CAM and CIM – Also see EN 445 and NSERC Major  
     Equipment Grant – October 1983 application  
 CAD: SPOCAD – Visited in June 1985 (on mailing lists for  
     announcements)  
 Computer Integrated Mfg Centre – Proposal for Industrial  
     Systems Engineering  
 Computer Manufacturing – Industrial Robots  
 Cafeteria Users Committee (includes Seawell 1972 letter)  
     – see food services file for more information  
 Calendar – Events and meetings, special programs and  
     university calendar information  
 Campion College  
 Canada Customs Procedure  
 Canada Student Loans  
 Centres of Advanced Technology  
 Chemical Storage  
 Citizen Ambassador Program to Soviet Union  
 Class Material Records  
 Communications Office – Department of Extension  
 Community Resources Bureau – Department of Extension  
 Computer Account Forms and Instructions  
 Computer Accounts for Research  
 Computer Account usage (the large number of account  
     sheets have been discarded, this is one sample)  
 Computer Centre and Computing Services – Organization,  
     Directory, Usage Rates and Equipment  
 Computer Classes including class notes and materials

Box 13

Computer Data – Saskatchewan Information Retrieval Center  
Computer Displays – Merry Christmas  
Computer Facilities – Microcomputers  
Computer Graphics  
Computer Hardware and Software at U of R Computing Services  
Computer Integrated Manufacturing  
Computer Networks  
Computer Plotter – CALCOMP Plotter Users Guide  
Computer Plotter – CALCOMP batch, Diablo plot usage, terminal and multicurve program  
Computer – Portable  
Computer – Prime software at U of R  
Computer Programs for Potential Use in Classes in Systems Engineering  
Computer – Resource Planning  
Computer Service and Contracts  
Computer Simtek System (we're not likely to use it)  
Computer – simulation  
Computer Software Business  
Computer Software Request Form  
Computer Supplies – Discs  
Computer Techniques, References and Terms  
Computer Terminal Use (including Ed 4.85)  
Computer Use Information and Bookstore materials for computer use (also see Computer classes file and CS200 flag notes)  
Computers – PDP 15 Instructions  
Conference Facilities and Accommodations  
Contract Lecturer Submission Format  
Course Evaluation Program  
Directory  
Dismissal Procedures – Proposed  
Duplicating Services  
Economic Conditions – Canada and other nations  
Education in Universities – General information on career, tenure, fraction of students, etc.  
Employment Conditions  
Employment of Graduates from Systems Engineering  
Employment of Non-Canadians  
Employment Opportunities  
Employment Opportunities – Faculty  
Engineering Advisory Council  
Engineering Equipment Fund  
Engineering Students Society  
Exhibition  
Extension  
Facilities, including Lounge  
Faculty Club  
Fees – University of Regina  
Fellowships – Australian Institute of Nuclear Science and Engineering  
Field Station  
Financial Assistance for Students  
Fine Arts Events

Box 14

Fire Safety  
 First Aids and CPR Courses  
 Fluidics  
 Food Services  
 Forms – Class Information (for pre-registration)  
 Forms – Interlibrary loan request  
 Forms – Reproduction and Typing  
 Forms – Routing  
 Forms – Time Table Changes  
 Forms – Travel Advance  
 Forms – Travel Expense Claim  
 Furniture in Homerooms for Systems Engineering Programs  
 Futures References  
 Gift Fund  
 Government Statistics Information Centre (Canada) – includes census information  
 Grad Studies – Staff Policy  
 Grading  
 Grievance Procedures  
 GST – tax starting January 1991 1991  
 Handicapped Persons – Guide for the physically handicapped  
 Hazardous Materials (WHMIS) – Save this for future reference on safety matters  
 Health Clinic  
 Heat Transfer – Survey and Miscellaneous Information and Research  
 High School Liaison and Visits  
 Hiring Policies  
 Holidays and Hours for University  
 Humour  
 Immigration Regulations  
 Income Tax Matters  
 Industrial Incentives  
 Institute for Northern Studies  
 Instruction Improvement Sheet (from John Mantle)  
 Instructor Evaluations  
 Inter-campus Activities  
 International Research Survey  
 Leader-Post – interview note for Archives (reporter wished nuclear energy information for article)  
 Labs Archives – Interdisciplinary Lab – Ideas of John Wighton  
 Legislation – University of Regina Account, Saskatchewan Universities Commission  
 Library Appropriation and Expenditures for Mechanical Engineering, Industrial Systems  
 Library Automation  
 Library books on hand (and Seawell research) – Mechanical Engineering and Industrial Systems Engineering  
 Library – Copyright (for Reserve Usage)  
 Library Donations  
 Library for Engineering Graduate Students  
 Library Handbook (about library use)

Box 15

Library Hours  
Library Materials Request Forms  
Library – Microcomputer Labs  
Library – Miscellaneous  
Library – Periodicals for Industrial Systems Engineering  
Library Personnel  
Machine Shop  
Mail and Distribution  
Management Article – Managing your Boss  
Management Games  
Management Institute  
Map Library  
Meals  
Meetings Calendar  
Metrication  
Micom Usage  
Moving and Storage Companies  
Nurses – Nursing program (being considered a possibility  
for University of Regina Article – nurses with university  
degree will be needed)  
Office Hours (see file Holidays and Hours for University)  
Office Procedures and Policies  
Office Security  
Open House and Scholarship Students Program  
Orientation of Students  
Parking  
Patents and Licensing  
Pay Scales and review procedures – Administrative  
personnel  
Pay Scales – Engineers  
Pay Scales – Other than Faculty, Professional Engineers  
and Student Asst (separate files)  
Peace Research Project – Political Science Department,  
University of Regina  
Personnel Department  
Personnel Information and Inquiries  
Photos (no photographs, information on photographer)  
Physical Activity Studies – Faculty and Sports  
Physical Fitness – University of Regina programs  
Physical Plant Services  
Postal Matters  
Printing Services  
Public Relations  
Publicity Information Services  
Realtor Contacts (for applicants during interview visits)  
Records and archives  
Recreation – including Willow-Island information  
Regina Science Fair (and other science fairs)  
Science Fair information for planning and preparing  
exhibits – emphasis on atoms at the science fair but  
contains other good general suggestions  
Regina Transit System – Bus Schedule  
Registration – Industrial Systems Engineering  
Registration Procedures  
Registration – Requirements for Engineering  
Registration Statistics – University of Saskatchewan

Regina Campus  
 Removal Allowances  
 Reproduction (Photocopies) and transparencies  
 Research Directory – University of Regina and Faculty of  
 Engineering Information  
 Review Procedures – Tenure, Promotion, Special  
 Increases, Appeal  
 Room Usage  
 Salary, stipends and honoraria paid other than on normal  
 payroll  
 Sask Education and CBC Regina – A Fine Science Series  
 Sask Media – Films  
 Sask Pension Plan 1986  
 Sask Museums Association  
 Sask Science Centre  
 Schedules for University and Faculty Operation  
 Secretary's Schedules and Assignments and other  
 Information  
 Sexual harassment policy  
 Smoking policy  
 Speakers' Bureau and Community Resources' Bureau  
 Student Assistants – Pay and Classifications  
 Student Movements (re: financial matters)  
 Students' Union Exam Registry  
 Summer Sports School  
 Supplies  
 Swimming  
 Teaching Duties of Faculty  
 Teaching Methods and Teaching Behaviour  
 Technology and Man  
 Telephone numbers and room numbers on campus and at  
 Saskatoon  
 Telephone System on Campus  
 Telephone and telegraph rates and miscellaneous  
 information  
 Translations  
 TV program on women in engineering – potential  
 Typing and typewriter  
 United Way  
 University of the Air  
 University of Regina Group for Refugees  
 University Policies toward faculty – Miscellaneous  
 Information  
 University Service – Long-service recognition  
 Vacation and leave plan to propose  
 Vocational interest testing  
 Welding  
 Working Hours  
 Workmen's Compensation - Accidents

#### Energy and Industry Files

Oil Companies – financial matters (stocks, shareholders,  
 etc.)  
 Oil and Gas in Costal Lands and Waters (separate file for  
 oil platforms)

Box 16

Oil Demand and its Effects  
 Oil Drilling (also see Oil and Gas Exploration file and Oil  
 and Gas Production and Distribution file)  
 Oil and Gas Exploration (also see Oil Drilling file)  
 Oil and Gas – Exports from and Imports to Canada and  
 Reserves  
 Oil – Forecast and global views  
 Oil and Gasoline – fuels and lubricants  
 Oil – Heavy Oil Upgrader – Co-op Refinery, Regina  
 Oil – Heavy Oil Upgrader – Husky Oil in Lloydminster,  
 Sask  
 Oil – Heavy Oil Upgrader and Heavy Oil Information (other  
 than Co-op and Husky)  
 Oil-Overseas Production  
 Oil and Gas Pipelines (also see Oil and Gas Production  
 and Distribution in Canada)  
 Oil Platforms - General  
 Oil platforms – The Ocean Ranger (which sank)  
 Oil and Gas production and Distribution – Canada  
 Oil – Refineries in Canada (also see consumers co-op  
 refinery file)  
 Oil – Refineries other than in Canada  
 Oil Sands – Alsands Project  
 Oil Sands – Great Canadian Oil Sands Ltd. near Fort  
 McMurray, Alberta  
 Oil Sands – Misc and Heavy Oil Production  
 Oil Sands – Syncrude  
 Oil Transport  
 Oil – U.S.  
 Ontario Hydro  
 Organization of Petroleum Exporting Countries - OPEC  
 Pacific Gas and Electric Co.  
 Peat  
 Personnel involved with Energy in Regina  
 Petro-Canada  
 Petro-Canada – Natural Gas Plant, Burstall, Sask  
 Petrochemical Industry  
 Petroleum Resources - Asia  
 Philippines  
 Pollution of Atmosphere  
 Pollution of Atmosphere – Remedial action  
 Statistics re: population and agriculture in Canadian  
 provinces – from Joan Baron  
 Power Generation Systems – Mechanical  
 Probabilistic Risk Assessment (Nuclear Industry)  
 Publications on Energy – Miscellaneous  
 Publications on Solar Energy  
  
 Publications – Sulzer technical review  
 R and D Projects in Sask  
 Reference materials re: energy - to be checked out or  
 ordered  
 References for energy  
 Reference lists re: energy (with reference lists prepared by  
 Simon Hashem and later information)  
 Reference materials on energy

Box 17

Refrigeration  
 Renewable energy  
 Risk to Human Health and Safety  
 Saskatchewan Coal Resources and Use  
 Saskatchewan Electric Power  
 Sask. Minerals Data  
 Sask. Mining Development Corporation (including information from energy perspectives conference) 1983  
 Sask. Natural Gas Distribution (including Sask. Power Control Centre)  
 Sask. Oil (Corp)  
 Sask. Oil and Gas Industry (and production)  
 Sask. Oil and Gas Revenues, Taxes, and Policies  
 Sask. Power Corporation  
 Sask. Uranium  
 Sask. Uranium Development in the Global Context  
 Saudi Arabia (and OPEC), relation to the Western Nations  
 Sites for Energy Facilities  
 Solar Electric Power – concentrating sun's heat  
 Solar Electric Power – Solar ponds  
 Solar Energy  
 Solar Energy Equipment  
 Solar Homes  
 Solar – Photovoltaics  
 South American Countries re: Energy  
 Steel Development  
 Soviet Union - Oil  
 Synthetic Fuels  
 Technology, Industry and Man  
 Texaco Canada Inc.  
 Textbook notes pertaining to energy  
 Thermal Data for World  
 Transportation – Electric Car  
 Transportation – Energy Economy  
 Transportation – Fuels  
 Uranium and Thorium in Canada  
 Uranium City  
 Uranium Companies  
 Uranium Exploration  
 Uranium Mining  
 Uranium Mining Spill  
 Uranium Prices  
 Uranium Resources and usage  
 US-Canada interaction re: Uranium  
 US Department of Energy and its research guide  
 US Energy Budget and Energy Demand  
 US Fossil Fuel Resources and Energy Consumption  
 US Government Energy Legislation and Involvement with Energy  
 US National Energy Policy  
 US – Sanctions  
 Waste Processing and Energy Recovery  
 Water and Water Projects and Rainfall  
 Desalination of water – Nuclear Plants for this  
 Wind Energy  
 Wood and Timber



## World Energy Supply and Demand

## Energy Files A-N

1971-1989

Box 18

Accident Analysis – Mathematical Methods  
 Alberta  
 Alternative Energy Sources  
 Animal Power  
 Appropriations for Energy  
 Arctic Energy Resources  
 Audio-Visual Energy Materials  
 Biomass  
 Boise Cascade Canada  
 British Columbia – Energy  
 Budgets re: Energy  
 Building Energy  
 Canada – Economy  
 Canada – Energy History and Policy and Energy Economy  
 Canada – Energy projections  
 Canada – Energy supply and demand  
 Canada – Federal-provincial energy agreements  
 Canada – International Energy Purchases and Sales  
     including Natural Gas  
 Canada – Resource Maps and Articles  
 Canadian Electrical Association (promotes wise and  
     efficient use of energy)  
 Canadian Energy Research Institute  
 Candu Reactors  
 Cities and Energy  
 Climate re: energy, coal, carbon dioxide  
 Coal in Canada  
 Coal Gasification (and liquefaction when information on  
     both is together)  
 Coal Liquefaction (also see Coal Gasification re:  
     information on both)  
 Coal Mining  
 Coal transport  
 Cogeneration of heat and power  
 Conservation of Energy  
 Consumers Co-op Refinery  
 Corrosion (of pipes)  
 Diesel Engines  
 Direct Energy Conversion  
 Dome Petroleum  
 Economics re: Energy Supply and Demand of Energy  
     Materials  
 Electrical Demand Forecasting  
 Electrical Generation and Distribution  
 Electrical Outages and Restoration  
 Electricity Sales by Canada to US and vice-versa  
 Electric Transmission Lines in Canada and Electricity in  
     Canada  
 Energy Agreements – Canada and Alberta  
 Energy Engineering – General  
 Energy – General  
 Energy History

Box 19

Energy Information Sources  
 Energy Management in Buildings and Industry  
 Energy Modeling and Simulation  
 Energy News Clippings  
 Energy – Overall Examination from viewpoint of personnel  
     in Office of Energy Research and Planning, Oregon  
 Energy Perceptions  
 Energy Policies in Different Countries  
 Energy Projections  
 Energy Research  
 Energy Teaching [Auds]  
 Environment - Pollution  
 Environmental Effects and their Correction – From  
     Electricity Generation; noise  
 Europe  
 Famine  
 Farming – Soil depletion and maintenance  
 Farm Energy and Food Energy  
 Farming and Farm Economies  
 Food Fisheries and Aquaculture  
 Food Land Resource in Canada  
 Food Malnutrition  
 Food Policies  
 Food Prices, Production and Storage  
 Food Processing Energy  
 Food Requirements, Research, and Farming Methods to  
     Meet Needs  
 Food System Energy Policy and related Politics – US  
 Food Transportation and Distribution  
 Food – Limits to Growth Submission (includes files re: the April 1975  
     Mitchell Prize competition)  
 Food – Joan Baron's work re: Limits to Growth competition  
 Food – University of Regina Correspondence re: Limits to 1975  
     Growth '75  
 Food – Mitchell Prize Information and Application and 1975  
     Correspondence with Limits to Growth '75  
 Food and Agriculture – Miscellaneous notes from April  
     1975  
 Fuel Cells  
 Fuels and their combustion and reactions (also involved in  
     refining)  
 Future re: Energy  
 Gasoline costs  
 Global Warming  
 Grain Transportation  
 Greenhouses in Sask.  
 Heat Pipes  
 Heat Pumps  
 Home (energy efficient)  
 Hydrogen  
 Idaho Energy Update  
 Illumination Energy  
 Industrial Safety Methods and Appraisal  
 Information Retrieval Services – Information from SRI August 1981  
 Information Sources re: Energy  
 International Joint Commission – US and Canada,

including BC and Seattle interaction re: Ross Dam  
and Shagit Valley  
International Trade  
Legislation re: Energy  
Magnetohydrodynamics and Liquid Metals  
Mexico – General Information  
Mexico – Oil and Gas  
Mining  
National Energy Program – Canada  
National Energy Program re: Oil in Canada  
Natural Gas  
Natural Gas High Efficiency Furnace  
Natural Gas Pipeline in Europe  
Natural Gas Prices  
Natural Gas Well Blowouts  
Nova Scotia Power Corp.  
Nuclear Energy – Building Heating – Slowpoke Energy  
System of AECL  
Nuclear Energy Films Saskmedia  
Nuclear Energy – General Information and Evaluation  
Nuclear Fusion  
Nuclear – General Information and Publications  
Nuclear Industry in Canada  
Nuclear Power in Canada  
Nuclear Power Economics  
Nuclear Power and the Environment  
Nuclear Power - General  
Nuclear Power in Saskatchewan – Potential and Natural  
Gas usage by comparison  
Nuclear Reactor – Candu for Saskatchewan  
Nuclear Reactor – Problems including the steam  
generators  
Nuclear Reactor Safety and the Public  
Nuclear Reactors – Candu (see Nuclear Power in Candu  
file)  
Nuclear Regulatory Commission  
Nuclear Report (published by American Nuclear Society  
Washington Representative)  
Nuclear Standards  
Nuclear Waste  
Nuclear Waste Management – AECL  
Nuclear Waste Management – Canadian Federal  
Environmental Assessment Review Office