

AMERICAN STATISTICAL ASSOCIATION
ALASKA CHAPTER
NEWSLETTER

JUNE 1997

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1997 ALASKA CHAPTER MEETING

The 1997 Annual Meeting will be held this year from July 31st through August 2nd, at Chena Hotsprings Resort.

Our featured speaker will be Dr. Dale Zimmerman, University of Iowa. Dr. Zimmerman will give two presentations: (1) Variance-Covariance Structures for Longitudinal and Spatial Data; and (2) Analysis of Spatial Point Patterns. Both talks are scheduled for the morning sessions of the first two days of the meeting.

Dr. Zimmerman provided the following descriptions for his presentations:

VARIANCE-COVARIANCE STRUCTURES FOR LONGITUDINAL AND SPATIAL DATA

A feature common to both longitudinal and spatial data is the presence of

correlation among observations. Properly accounting for this correlation, rather than ignoring it or "randomizing it away," generally results in a more efficient and penetrating statistical analysis. This is particularly so if the correlation has a discernible structure that can be modeled parsimoniously. In this talk I review some commonly used variance-covariance structures for longitudinal and spatial data and the underlying stochastic models that give rise to them. Maximum likelihood estimation of model parameters, assuming normality, is presented. Several aspects, both conceptual and computational, of this modeling and estimation paradigm are considered. Commonalities of, and differences between, the implementation of this paradigm for longitudinal and spatial data are emphasized. Worked examples, using SAS PROC MIXED, are included.

ANALYSIS OF SPATIAL POINT PATTERNS

A spatial point pattern, for example a map of eagle nests, is a set of points, usually in a two- or three-dimensional region, for which some aspect of the locations is of interest. Statistically, a spatial point pattern is typically regarded as a partial realization of a spatial point process, i.e. a random mechanism for generating points. In this presentation I review several useful spatial point process models and discuss approaches to several inference problems, including tests for complete spatial randomness, tests for isotropy, estimation of intensity, and tests for independence in multi-species patterns. Worked examples, using S+SpatialStats, will be presented.

Registration fees for the 1997 meeting will be:

- ▣ \$125.00 for sponsored attendees
- ▣ \$25.00 for non-sponsored attendees
- ▣ Students (e.g., University students) may attend free of charge

A general summary of the schedule for the 1997 meeting follows:

THURSDAY, July 31 (Chena Hot Springs Resort)

9:30 Dale Zimmerman's Presentation

noon Lunch

1:30-2:30 Member Talks

2:30-4:00 Bus. Meeting

4:20-5:20 Member Talks

Dinner, then whatever

FRIDAY, Aug. 1 (Chena Hot Springs Resort):

8:30-11:30 Dale Zimmerman's presentation

11:30-12:30 More member talks

12:30 Lunch (end of meeting)

(Airplane ride for Dale? Dinner at wherever for remaining group)

SATURDAY, Aug. 2:

Hike to Angel Rocks or some similar hike.

Soak in hot springs.

All Chapter members who are interested in presenting a talk should contact Ron Barry, (907)474-7226, ffrpb@aurora.alaska.edu.

Link to: <http://www.uafcs.alaska.edu/~asa/1997AMtg.html> for the most up-to-date information on the meeting.

 *Submitted by Allen E. Bingham, Secretary-Treasurer, (907)267-2327, AllenB@fishgame.state.ak.us*

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INFORMATION ON MEETINGS, CONFERENCES, AND COURSES

ASA Related or Co-sponsored Conferences or Meetings

 **1997 Alaska Chapter Meeting** - To be held in Fairbanks, Guest Speaker: Dr. Dale Zimmerman, University of Iowa. July 31-August 2.

Ron Barry, meeting chair, Contact Ron at: (907)474-7226, or by email at FFRPB@aurora.alaska.edu, to offer help or to submit titles for talks.

 **1997 Joint Statistical Meetings**
Aug. 10-14, 1997, Anaheim, CA

Latest information available on WWW at URL:
<http://www.amstat.org/meetings/jsm/1997/index.html>

 **1998 Alaska Chapter Meeting** - To be held in the Anchorage area, Specific

TIME NOT YET DETERMINED

Mark Udevitz, meeting chair, Contact Mark at: (907)786-3365, or by email at Mark_Udevitz@nbs.gov, to offer help or to submit titles for talks.

 **Future Joint Meetings:**

Aug. 9-13, 1998, Dallas, TX; Aug. 8-12, 1999, Baltimore, MD; Aug. 13-17, 2000, Indianapolis, IN; August 5-9, 2001, Atlanta, Georgia

 **Fall Technical Conference**

October 16-17, 1997, Baltimore, Maryland.

The conference is co-sponsored by the Chemical and Process Industries Division and Statistics Division of the ASQC and the Section on Physical and Engineering Sciences of ASA. To request detailed submission instructions, contact Susan L. Albin, Rutgers University, salbin@rci.rutgers.edu, Sharon Fronheiser, Eastman Kodak, Co., sharonf@kodak.com, or Randy Tobias, SAS Institute Inc., sasrdt@unx.sas.com

 **International Conference on Health Policy Research: Methodological Issues in Health Services and Outcome Research**

December 5-8, 1997, Washington, D.C.

Sponsored by the ASA Health Policy Statistics Section. For information, contact Colin Goodall, cgoodall@monmouth.com

 **International Biometric Society (ENAR) Spring Meeting**

March 27-April 1, 1998, Pittsburgh, Pennsylvania.

Sponsored by the Eastern North American Region of the International Biometric Society; co-sponsored by the Institute of Mathematical Statistics and various Sections of the ASA. Abstract deadline: November 15, 1997. For more information contact ENAR Conference Manager. Phone: (703) 435- 4390 or Email: ENAR@aol.com

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Other Statistically-related Meetings or Conferences

 **60th Annual IMS Meeting**

July 28-August 1, 1997, Park City, Utah

The 252nd meeting of the Institute of Mathematical Statistics will be held at The Inn at Prospector Square. This meeting is held in conjunction with WNAR and the Third International Probability Symposium. The Program Chair for this meeting is Rudolf Beran, University of California, beran@stat.berkeley.edu. For more information see <http://www.math.usu.edu/ims/parkcity.html>

**■ Annual Meeting of Society for Mathematical Biology
August 3-6, 1997, Raleigh, North Carolina**

To be held at North Carolina State University. For more information see <http://www.stat.ncsu.edu/smb>

**■ SPRUCE Conference -- Statistical Aspects of Health and the Environment
September 8-12, 1997, Enschede, The Netherlands.**

The fourth Statistics in Public Resources and Utilities, and in Care of the Environment (SPRUCE) international conference, on the theme Statistical Aspects of Health and the Environment. For further information, contact A. Stein, Email: spruce@itc.nl

**■ Workshop on Bayesian Statistics in Science and Technology
September 26-27, 1997, Pittsburgh, Pennsylvania.**

The Fourth Workshop on Case Studies of Bayesian Statistics in Science and Technology will present and discuss in depth a select set of substantial applications of Bayesian statistics to problems in science and technology. For additional information, contact Rob Kass; kass@stat.cmu.edu or check out <http://www.stat.cmu.edu/meetings/bayes.html>

**■ Statistics for Correlated Data: A Conference Marking the 50th Anniversary of the Department of Statistics
October 16-18, 1997, Iowa State University, Ames, Iowa.**

For further information, contact [Yasuo Amemiya](mailto:Yasuo.Amemiya@iastate.edu) at Iowa State University, yza@iastate.edu

**■ Symposium '97: New Directions in Surveys and Censuses
November 5-7, 1997, Ottawa, Ontario**

Statistics Canada's XIV annual international methodology symposium will be explore new trends and directions in designing and conducting surveys and censuses. This year's symposium will be expanded to feature both contributed and invited sessions, running in parallel. For more information contact Jack Gambino, sympos97@statcan.ca

**■ Recent Advances in Statistics and Probability
December 29, 1997 - January 1, 1998, Calcutta, India.**

The Bernoulli Society for Mathematical Statistics and Probability, and the Indian Statistical Institute will jointly sponsor this international conference. For further information, contact Indian Statistical Institute; isibern@isical.ernet.in or R.L.Karandikar, isbern@isid.ernet.in or [Mohan Delampady](mailto:Mohan.Delampady@isid.ernet.in),

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Other Miscellaneous Meetings

1997 Alaska Chapter of the American Fisheries Society Meeting Nov. 17-20, 1997, Juneau, Alaska

Contact [M. D. "Buck" Bryant](#), mbryant@ptialaska.net for futher information or check for updates on WWW at URL: <http://www.alaska.net/~fishak/index.html>

Course Announcements

Multivariate Analysis, AS 408 Fall 1997 semester at University of Alaska, Anchorage campus, TR 4:00-5:15 p.m.

Contact [Sam Thiru](#), afkt@uaa.alaska.edu for more details.

Natural Resources Communication Fall 1997, Anchorage area

A 2.5 day workshop sponsored by the Alaska Chapter of the American Fisheries Society, designed to help natural resource professionals communicate more effectively with general and technical audiences, especially via slide shows; and given by Dr. Jon Hopper. The course registration form will soon be posted at <http://www.alaska.net/~fishak/index.html> or contact [Pat Hansen](#), PatH@fishgame.state.ak.us for additional details.

Beginning and Advanced SAS 29 September-3 October, 1997, Anchorage area

Two simultaneous 5-day workshops sponsored by the Alaska Chapter of the American Fisheries Society, designed primarily for fisheries professionals, and given by Drs. James Geaghan and Barry Moser, Louisiana State University. The course registration form will soon be posted at <http://www.alaska.net/~fishak/index.html> or contact [Pat Hansen](#), PatH@fishgame.state.ak.us for additional details.

No Other New Course Announcements at "Press-time"

Submitted by Allen E. Bingham, Secretary-Treasurer, (907)267-2327, AllenB@fishgame.state.ak.us

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OTHER ITEMS OF INTEREST

Surfing the Web - A Personal Log

Current statistics information over the Internet can be gleamed by subscribing to one or more of the three primary statistics news groups:

- ✉ sci.stat.consult
- ✉ sci.stat.edu
- ✉ sci.stat.math

News items in these groups include meeting announcements, queries (requests for statistical advice, references, or software sources), discussions of issues, and employment opportunities. You can submit your own queries, and you will almost certainly get responses, by E-mail and on the news group itself. As the saying goes, "free advice is worth every cent," but if you are careful and thorough in specifying your problem you will almost certainly end up with some useful information.

Subscribing to a news group entails no responsibility on your part. After subscribing, you need never access the group again. Your internet service provider will periodically delete old news items and replace them with new items. You can read them, "mark them as read," or ignore them, as you like.

There are also a number of mathematical news groups which you may want to consider --- look under sci.math in the (very long) list of groups you can download from your internet service. There are dozens of groups covering specific programming languages (look under comp.lang) and statistical packages (SPSS, BMDP, SAS, JMP, SYSTAT, GAUSS, Splus, and others). Your news reader software may have a search function you can use to find groups on specific topics of interest.

Some groups are almost always empty --- nobody uses them. One of these is sci.math.stat. Other groups are almost impossible to keep up with. Hundreds of new items are added every day. Often there is a monitored list covering the same topic which includes only items of general interest.

If you have more specific statistical interests, you may want to try subscribing to an E-mail list. Contributed items are sent to you by E-mail. After you have successfully subscribed, which is not always an easy task, you must periodically read your mail, or your mail box will overflow. And when you go on vacation, or a summer field trip, you may need to suspend your subscription. Because there are many different list manager software packages, and no standards, accomplishing these simple administrative chores is often frustrating. For example, to unsubscribe from some lists, you must send the one-line message "unsubscribe list-name" --- without the quotes, with no subject, and no signature attachment, if you use one. The list manager software then sends you a message requesting a confirmation within 24 hours. If you don't confirm, you are not dropped from the list. Finally, to subscribe or

request information about a list, you usually do not send email to the list itself, but to another E-mail address.

If you are willing to put up with these headaches, you can find E-mail lists on:

* statistics in Australia and New Zealand * a forum for non-Ph.D. statisticians * International Association for Statistical Computing * German computational statistics
* statistics at UCLA * Bayesian statistics * cluster analysis * randomization and permutation tests * multilevel modeling for nested data * survey research * time series * GAUSS software * JMP software * SAS * SPSS * Stata * Systat * operations research * spatial data analysis * biometry in Germany * biological telemetry * fish ecology * statistical applications in chemistry

To find out how to subscribe to one of these lists, see the WWW site:

<http://www.mailbase.ac.uk/lists-k-o/minitab/files/list-of-lists>

If you don't yet use the World Wide Web, you can send the one-line message:

send minitab list-of-lists

to mailbase@mailbase.ac.uk

Do not type a subject and do not use a signature file.

If you are interested in statistics news from Europe, you can subscribe to the allstat list. See the WWW site:

<http://www.stats.gla.ac.uk/allstat/>

Most of the items on this list are announcements of job openings, seminars, graduate assistantships, etc. in the United Kingdom.

Electronic publishing on the WWW is becoming commonplace. Interstat posts statistical papers for a \$50 fee which are freely accessible. Your paper is read by a knowledgeable editor, but not peer-reviewed and it is not considered published, so you can submit it to a paper journal. See:

<http://interstat.stat.vt.edu/intersta.htm/>

This address should be typed as shown.

UCLA publishes the Journal of Statistical Software on the WWW. Papers are refereed and considered published. There is no fee. Ron Barry (UAF) has a paper in the first issue. The site is:

<http://www.stat.ucla.edu/journals/jss>

 Submitted by *Ivan Frohne*, frohne@acm.org

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Recent Publications

The following is a select list of recent publications by Chapter members (chapter members noted in bold):

Bernard, D. R., and J. E. Clark 1996. *Estimating salmon harvest with coded-wire tags*. *Canadian Journal of Fisheries and Aquatic Sciences* 53:2323-2332.

Quang, X. Pham, and E. F. Becker. 1996. *Line transect sampling under varying conditions with applications to aerial surveys*. *Ecology* 77(4): 1297-1302.

DeCicco, A. L., M. F. Merritt, and A. E. Bingham. 1997. *Characteristics of a lightly exploited population of Arctic grayling in Sinuk River, Seward Peninsula, Alaska*. *American Fisheries Symposium* 19:229-239.

Quang, X. Pham, and E. F. Becker. 1997. *Combining line transect and double count sampling techniques*. *J. Agricul. Biol. and Envir. Sci.* In press.

Modafferi, R. D. and E. F. Becker. 1997. *Survival of radio-collared adult moose in Lower Susitna River valley, South-Central Alaska*. *J. Wildl. Manage.* In press.

Becker, E. F., M. A. Spindler, and T. O. Osborne. 1998. *A population estimator based on network sampling of tracks in the snow*. *J. Wildl. Manage.* In press.

Calkins, D. G., E. F. Becker, and K. W. Pitcher. *Reduced body size of Stellar sea lions from a declining population in the Gulf of Alaska*. *Marine Mammal Sci.* In Press.

This list is intended for informational purposes only. The list only contains articles that the editor was "made aware of", omission from the list is entirely unintentional. Please send any citations you would like listed in future newsletters to [Allen Bingham](#), thanks.

 Submitted by *Allen E. Bingham, Secretary-Treasurer, (907)267-2327, AllenB@fishgame.state.ak.us*

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News from the National ASA Office

Take 5 (Days, that is!)

Take five days to learn to teach your kids how to handle data with the pros at an American Statistical Association-sponsored workshop in Quantitative Literacy.

Elementary

July 14-18 in the Washington DC area

July 21-25 in Providence RI (At the Lincoln School)

Middle School

July 28-August 1 in the DC area

July 21-July 25 in Providence

High School

July 21-25 in the DC area

July 28-August 1 in Providence

Advanced Placement Statistics

July 7-11 in the DC area

July 14-18 in Limestone ME (at the Maine School of Science and Mathematics)

Cost? \$450, Plus travel/room and board

Contact Sue Kulesher, give her your name and address; she'll send you the materials.

 *Submitted by Sue Kulesher, ASA Office of Education, (703)684-1221 x 150, sue@amstat.org*

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Lights, Camera, Statistics!

If you had peeked into some of the meeting rooms during the Joint Statistical Meetings in Chicago last year, you might have assumed that a famous movie star was filming on location. You would have been partly correct. As part of their ongoing

commitment to the profession, the Advisory Committee on Continuing Education made arrangements for several courses to be videotaped to become part of the ASA Continuing Education Video rental library. These Short Courses/Tutorials are designed to meet the needs of those individuals unable to attend the JSM and/or need a refresher in different subject areas.

"Designing and Implementing Economic Evaluation in Health Care" provides an overview of the principles of health economic evaluation. Joseph Heyse and John Cook of Merck Research Laboratories along with their colleague Michael Drummond, of the University of York, say they decided to present this course because the informational needs of health care professionals are expanding beyond the traditional assessments of clinical safety and efficacy. It is their intent to address the questions concerning the studies of the cost-effectiveness of pharmaceutical products being conducted. This assessment stems from the increasing attention being given to the quality of health care delivery.

Brad Carlin and Tom Louis present, "Bayes and Empirical Bayes Methods for Biostatistical Data Analysis." Both are professors at the University of Minnesota, School of Public Health and feel this course will provide an appreciation of the usefulness of Bayes and Empirical Bayes Methods to statisticians who are intrigued by all the fuss about Bayes and Gibbs, but who may still mistrust the approach as theoretically mysterious and practically cumbersome. The course also shows how properly structured Bayes and EB procedures typically exhibit good frequentist performance, both in theory and in practice. Their accompanying textbook, Bayes and Empirical Bayes Methods for Data Analysis, is available from Chapman and Hall Publishers.

Another filmed course is "Overview of Reliability." Larry Leemis, Professor of Mathematics at the College of William and Mary, designs his course to introduce students to probability models and statistical methods in reliability. Leemis introduces participants to various probabilistic models and to see the application of those models to an array of data sets drawn from reliability and other application areas. Leemis' textbook, Reliability: Probabilistic Models and Statistical Methods is available from Prentice-Hall.

"An Introduction to Regression Graphics" is the only one-day course available on Audio Only. Professors Dennis Cook and Sanford Weisberg, both from the University of Minnesota, Department of Applied Statistics, provide an overview of regression graphics that closely follows the outline in the textbook, An Introduction to Regression Graphics, John Wiley. This presentation is structured to help in discovering and understanding dependence of a response on predictors primarily through the use of simple graphs in one, two and three dimensions. The course introduces the R-code, which is Xlisp-Stat computer code that accompanies the book and allows the user to use all the methods described in the text and in the course.

All four presentations are six hours in length, and the three videos are available on 1/2 " VHS. Each course is accompanied by the appropriate ancillary

materials/handouts. Continuing Education Unit credit is provided upon verification of completion requirements. For a complete listing of all Short Courses and Distinguished Lecture Series Videos available for rent, contact the ASA, Office of Education, by mail at 732 North Washington Street, Alexandria, VA 22314- 1943; by fax at 703-684-2037; by E-mail at veronica@asa.org; or check out our website, <http://www.amstat.org>.

 *Submitted by Sue Kulesher, ASA Office of Education, 1-703-684-1221 x 150, sue@amstat.org*

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Continuing Education Opportunities at the 1997 Joint Statistical Meetings

The following represents an "at-a-glance" list of short titles of continuing education courses offered during the 1997 Joint Statistical Meetings in Anaheim:

SATURDAY, AUGUST 9, 1997

8:30am-4:30pm CE-700C Functional Data (Day 1 of 2)

8:30am-12:30pm CE-703S First Statistics Course

8:45am-4:45pm CE-701C Multivariate Analysis

8:45am-4:45pm CE-705C Modern Reliability

9:00am-5:00pm CE-702C Hotelling's T-Square

1:00pm-5:00pm CE-704W Role of Biopharm Statistician

SUNDAY, AUGUST 10, 1997

8:30am-4:30pm CE-700C Functional Data (Day 2 of 2)

8:30am-12:30pm CE-707W Biostatistics Position

8:30am-5:00pm CE-708C Experiments with Mixtures

8:45am-4:45pm CE-706C Statistical Genetics

8:45am-12:45pm CE-709C Environmental Statistics

8:45am-12:45pm CE-710C CART-CLASSIFICATION

1:00pm-3:00pm CE-711S Quantitative Literacy

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5:30pm-7:30pm CE-760M Statistical Presentations

MONDAY, AUGUST 11, 1997

8:30am-4:30pm CE-712C Regression Graphics

8:45am-4:45pm CE-713C Bayesian Hierarchical Modeling

9:00am-11:00am CE-716T Repeated Measures w/ SUDAAN 7.5

9:00am-5:00pm CE-715W Teaching Statistics

1:00pm-5:00pm CE-714C Clinical Trials

2:00pm-4:00pm CE-717T Design and Analysis w/ SAS

2:00pm-4:00pm CE-718T Screening/Optimization Design

TUESDAY, AUGUST 12, 1997

8:30am-4:30pm CE-719C Bayesian Data Analysis

8:45am-4:45pm CE-720C Robust Data Analysis

9:00am-11:00am CE-725T GEE Methodology

9:00am-11:00am CE-726T Resampling Statistics

9:00am-1:00pm CE-722W Course Homepage

1:00pm-5:00pm CE-721C Laboratory Medicine

1:00pm-5:00pm CE-723C Statistical Models

1:30pm-5:30pm CE-724C Repeated Measures

2:00pm-4:00pm CE-727T TI-83 Graphing Calculator

WEDNESDAY, AUGUST 13, 1997

8:00am-12:00pm CE-731C ANOVA Statistical Methods

8:00am-4:00pm CE-735S AP Statistics

8:30am-12:30pm CE-730C Customer Satisfaction

8:30am-4:30pm CE-728C Sampling Methods

8:45am-4:45pm CE-729W Statistical Planning

9:00am-11:00am CE-733T Using SAS System

9:00am-11:00am CE-734T NLEM: New SAS/IML Macro

2:00pm-4:00pm CE-732T Survey Data w/ SUDAAN 7.5

2:00pm-4:00pm CE-736T Resampling Statistics

2:00pm-4:00pm CE-737T Computing Algorithms

THURSDAY, AUGUST 14, 1997

8:30am-12:30pm CE-738T Problem Resolution Toolkit

9:00am-11:00am CE-739T Design and Analysis w/ SAS

9:00am-11:00am CE-741T GEE Methodology

2:00pm-4:00pm CE-740T Computing Algorithms

2:00pm-4:00pm CE-742T Screening/Optimization Design

General Information

Continuing Education (CE) tuition fees include course/workshop handouts and beverage breaks, where applicable. Textbook charges, if applicable are NOT included in the tuition fee. The deadline for early registration is July 15, 1997. Participants will receive a written confirmation/receipt. After that time registration payments will only be accepted on-site at the Joint Statistical Meetings Registration desk.

In order to participate in the Continuing Education Program, you must register for the Joint Statistical Meetings. Follow the registration instructions in the registration booklet for the Joint Statistical Meetings.

 *Submitted by Sue Kulesher, ASA Office of Education, 1-703-684-1221 x 150, sue@amstat.org*

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NEW CHAPTER MEMBERS

Since our last newsletter, the following new people have joined our Chapter:

■ Regular Members:

- Dana Bruden, Biometrician, Alaska Department of Fish and Game, Anchorage

■ Student Members:

- Diane Conway, University of Toledo, who states she joined out of a general interest in Alaska, and "I just finished my BS in math in April and will start working on my masters in Applied Statistics and Operational Research in the fall at Bowling Green State University".
- Pamela McNeley, University of Alaska, Fairbanks.

Welcome Aboard!!!

■ Submitted by Allen E. Bingham, Secretary-Treasurer, 1-907-267-2327,
AllenB@fishgame.state.ak.us

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TREASURER'S REPORT

The Chapter's account was \$5,102.61 on 1 January 1997. The following summarizes the year-to-date Income and Expenditures:

Income:

- \$100.00 dues
- \$18.00 donations
- \$74.49 Interest on bank accounts

\$192.49 Total Income

Expenditures:

- \$664.32 Total 1997 Annual Meeting Costs to Date, Including:
 - \$661.00 Dr. Zimmerman's Travel Costs (prepaid ticket)
 - \$3.32 Postage

\$664.32 Total Expenditures

Total Income/Expenditures:

-\$471.83

Balance as of June 9, 1997:

\$4,630.78

■ Submitted by Allen E. Bingham, Secretary-Treasurer, 1-907-267-2327

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 Submitted by Allen E. Bingham, Secretary-Treasurer, (907)267-2327,
AllenB@fishgame.state.ak.us

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FROM YOUR NEWSLETTER EDITOR

I continue to serve as the newsletter editor. In future issues of the newsletter, I would like to include any and all **items of interest** to our members. So if you have any news you'd like to see in print, drop me a line.

Also I'd like some feedback on the format and content of the current newsletter, if you don't like something tell me (and sure I'd love to hear a few encouraging words also).

 Submitted by Allen E. Bingham, Secretary-Treasurer, (907)267-2327,
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