

AMERICAN STATISTICAL ASSOCIATION
ALASKA CHAPTER
NEWSLETTER

SEPTEMBER 1996

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1996 ANNUAL MEETING REPORT

Featured Speaker and Chapter Presentations

This year's annual meeting was held on the main campus of University of Alaska, Anchorage, on June 24-26, 1996. Our guest speaker, **Dr. Martin Tanner** of Northwestern University presented a short course, spread over all three days of the

meeting, titled "*Methods for Exploring Likelihood Functions and Posterior Distributions*".

During two separate sections the following presentations by Chapter members or guests were given:

- *Classical time series techniques to analyze yearly sunspot data* by **Bob Sutherland**
- *Indirect Methods for Estimating Survival Rates* by **Mark Udevitz**
- *Spatial - Temporal Prediction of Snow Depth for Caribou Winter Range* by **Jay Ver Hoef and Ron Barry**
- *Sharing our Wealth: Outreach to Schools* by **June Morita**
- *Simulating and Computing Spatial Autoregressions* by **Kelley Pace and Ron Berry**

A barbecue was held at Earl Becker's house on the evening of the 24th to welcome Dr. Tanner.

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

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Business Meeting

Chapter President, Earl Becker, brought the annual business meeting to order the afternoon of June 26, 1996. Allen Bingham, Chapter Secretary/Treasurer gave a report on the 1995 Business Meeting minutes, and the status of the treasury at the time of the meeting (an updated treasury report is provided in a later section of this newsletter).

[Video Short Course-National ASA Plans](#): Earl Becker summarized the current status of plans by the national organization to tape two separate short courses at the 1996 Joint statistical meetings in Chicago.

[Traveling Short Course-CE for Applied Statisticians](#): Jay Ver Hoef discussed his work with the ASA traveling short course committee. (*Editor's note: check out the committee's [WWW Homepage for ASA Traveling Short Course](#), at <http://zorba.uafadm.alaska.edu/Math/asa/travelc.html>.*)

[Chapter Service Recognition Award](#): Earl Becker announced that Hal Geiger was chosen as our chapter's nominee for the ASA's Chapter Service Recognition Award as previously announced in our [June 1996 Newsletter](#).

[Election of Officers](#): **Mark Udevitz**, National Biological Service, Alaska Science Center, Anchorage was elected Vice-President for 1997. **Ron Barry**, current Vice-President will become President. **Bob Sutherland**, Master's student at University of

Alaska, Fairbanks was elected as an executive committee member for 1997. **Allen Bingham**, Division of Sport Fish, Alaska Department of Fish and Game, Anchorage will serve his second year of a two-year term as Secretary/Treasurer. **Jay Ver Hoef** will serve his second year of a three-year term as our representative to the Council of Chapters. Terms will begin in January 1997.

Quantitative Literacy: Earl Becker, Jay Ver Hoef, and other Chapter members discussed the issues of our chapter and the national ASA's quantitative literacy (QL) program to outreach to elementary and secondary educational institutions in Alaska. June Morita, chairperson of the Washington state ASA chapter's committee on QL presented some further suggestions on how to make our efforts more effective. The end result of the discussion during this business meeting was to create an ad-hoc committee on QL with Earl Becker as chairperson (*Editor's note: comments and suggestions, and offers of help should be directed to Earl Becker, at EarlB@fishgame.state.ak.us or 1-907-267-2407*).

1997 Meeting: Allen Bingham reported that Ron Barry has communicated with Dr. Julian Besag, University of Washington, as a possible speaker for our 1997 annual meeting to be held in Fairbanks.

1998 Meeting Topics: The following list of topics and possible speakers for 1998 was developed by meeting participants (with the highest priority topics listed first):

1. General Linear Models - Ron Hocking, McCullagh
2. George Box
3. Computer Intensive Methods - A. Gelfand, Bradley Efron, Jeff Wu
4. Topics/speaker tied:
 - Visualizing Data/Wavelets - William Cleveland, David Scott, Trevor Hastie
 - Robust Regression
5. Next place also tied:
 - State Space Models - Jon Schnute
 - Public Surveys - Ken Pollock, Barbar Bailar, Don Dillman
 - Mark-recapture Models - Ken Pollock
6. Neural Networks
7. Time Series/Cross Section Methods
8. Semi-parametric Models - Ray Carroll, Olkin

Our newly-elected Vice-President, **Mark Udevitz**, will be in charge of arranging the 1998 speaker. The 1998 meeting will be located in Anchorage.

• Submitted by *Allen E. Bingham, Secretary-Treasurer, 1-907-267-2327, 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, Tentative Guest Speaker: Dr. Julian Besag, University of Washington. Specific Time Not Yet Determined

Ron Barry, meeting chair, Contact Ron at: 1-907-474-7226, 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: 1-907-786-3365, 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
- Modelling longitudinal and Spatially Correlated Data: Methods, Applications, and Future Directions
Oct. 15-18, 1996, Nantucket, Mass.

Latest information available on WWW at URL: <http://tgg.fw.vt.edu/Nantucket/>

- 40th Annual Fall Technical Conference, Scottsdale, Arizona
October 24-25, 1996.

Call for Papers. Theme: "Leveraging Data for the Quality Transformation". Co-sponsored by American Society for Quality Control Chemical and Process Industries Division, Statistics Division, and the American Statistical Association Section on Physical and Engineering Sciences. Papers are presented in three parallel sessions: Statistics, Quality Control, or Tutorial Case Study. Request detailed submission instructions by E-mail, from Jacob Van Bowen: jvbowen@urvax.urich.edu

- **52nd Annual Deming Conference on Applied Statistics**
December 9-13, 1996, will be held at Merv Griffin's Resorts Casino Hotel in

Atlantic City, NJ on Dec. 9-13, 1996. To receive registration materials or further information, please contact Fred Balch, FDA, Division of Biometrics (HFD-710), 5600 Fishers Lane, Rm 15B-32, Rockville, MD 20857; Phone: 1-301-443-7580; fax: 1-301-443-5161.

- InterCASIC '96-International Conference on Computer-Assisted Survey Information Collection
December 11-14, 1996; San Antonio, Texas

Latest information available on WWW at URL:
<http://www.bsos.umd.edu/jpsm/casic.html>

Other Statistically-related Meetings or Conferences

- **Statistics Canada's XIIIth International Symposium on Methodology Issues**
November, 12-15 1996, Ottawa, Canada.

The theme of Symposium 96 is Nonsampling Errors. The focus will be on the prevention, reduction and evaluation of nonsampling errors arising from processes associated with planning and management, frames, nonresponse and measurements, for sample surveys, censuses and administrative data. For more information please contact:

Eric Rancourt,
Statistics Canada,
11th floor, R.H. Coats Building,
Ottawa, Ontario, Canada, K1A 0T6.
Phone: (613) 951-5046, Fax: (613) 951-1462,
e-mail: symposia@statcan.ca

- Statistical Bases for Public Health Decision-Making: From Exploration to Modeling
January 20-30, 1997, Atlanta, GA.

Co-sponsored by the CDC and the Agency for Toxic Substances and Disease Registry (ATDSR).

Latest information available on WWW at URL:
<http://www.cdc.gov/epo/mmwr/other/call.html>

- 1997 International Symposium on Human Dimensions of Natural Resource Management in the Americas
Feb. 25-March 1, 1997; Belize City, Belize, Central America

Latest information available on WWW at URL:
<http://www.cnr.colostate.edu/~hdnru/hdsympo.html>

Other Miscellaneous Meetings

- 1996 Alaska Chapter of the American Fisheries Society Meeting
Nov. 18-21, 1996; Fairbanks, Alaska

Latest information available on WWW at URL:
<http://www.alaska.net/~fishak/96oncv7.htm>

Course Announcements

- See the section labelled: "Applications of Recruitment Models to Fisheries Data" later in this newsletter
- No Other New Course Announcements at "Press-time"

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

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OTHER ITEMS OF INTEREST

Reports on the 1996 Joint Statistical Meetings in Chicago, Illinois

Chapter President's Report

According to the program, there were 37 different CE courses offered at the National Statistical meeting in Chicago, of which 2 were video-taped. ASA scheduled the following 2 courses to be taped: "***An Introduction to Regression Graphics***" by R. Dennis Cook and Sanford Weisberg, and "***Bayes and Empirical Bayes Methods for Biostatistical Data Analysis***" by Bradley Carlin and Thomas Louis. In order to reduce the cost of making the tapes, ASA decided to use 1 video-camera per course. They had contracted with a video expert in the Washington D.C. area, unfortunately, his video equipment was stolen right before he left for Chicago. He rented some equipment in order tape the above 2 courses, unfortunately, there was an equipment malfunction during the Regression course and only an audio tape is available. The equipment problem was fixed by using another camera for the second course, which was taped without incident. In order to obtain 2 CE tapes, ASA decided to tape another short-course, and picked: "***Overview of Applied Reliability***" by Larry Leemis. Since ASA only had 1 camera and camera man, they were limited to taping only 1 full-day-course per day. Full day courses were offered during 4 days of the conference, so there is some room for ASA to expand the number of courses taped per meeting.

I had the opportunity to talk to a number of ASA officers about the Chapter's concerns relative to taping short-courses, the officers include: Ray Waller (Executive Director), Lynne Billard (ASA President), David Hoaglin (ASA Vice-President), Janet Buckingham (ASA CE committee), June Morita (NW Council of Chapter Rep), Cathy Crocker (ASA staff - Director of Education), and Sue Kulesher (ASA staff - CE specialist), I also made contact with several ex-Presidents of ASA (Bob Hogg, Carl Morris, Ron Iman, and Katherine Wallman). In all of my conversations dealing with taping of CE courses, I first and foremost thanked them on behalf of the Chapter for reinstitution taping of the short-courses, and made a plug for them to tape short-courses next year and hopefully expand the number of courses taped in the future.

I also attended the "***Isolated Statisticians***" meeting and found out that I am "not an isolated statistician". This group consists mainly of statisticians who are the only statisticians in the Math Dept. of a Liberal Arts College. In the discussion, at which ASA Executive-Director, Ray Waller, was present, the cost of the continuing education courses offered at the national meetings came up. Apparently, some of these individuals can not obtain funding to attend the courses and they are too expensive to attend on their own. I mentioned that taping ASA courses and then viewing them at Chapter meetings could be done at a reasonable cost.

The other meeting I attended was on ***Applied Statisticians***, this was an open meeting containing members of this new committee. The formation of this group is ASA's attempt to find out from the Applied Statisticians what services and needs the organization needs to address. I think a tremendous amount of good can come out of this committee if they are constructive. Meredith Warsaw is the chair, and she is interested in hearing about what services applied statisticians want from ASA. So if you have an opinion that you would like to share with this group you can contact Meredith at 698 Hartford St., Newton Heights, MA 02161, or e-mail mwarshaw@tiac.net. Again at this meeting I brought up the taping of short-courses at the national meeting.

It was my understanding that ASA intends to tape some courses at next years meeting and that they might elicit feedback from the Alaska Chapter as to which courses to tape. There are some well known speakers who prefer not to be taped because they feel it hinders their ability to teach the class.

I also attended the Council of Chapter's Workshop and Reception with Jay Ver Hoef. Jay and I decided that we should document how to deal with ASA. We felt that if the Chapter had a paper explaining how ASA decisions are made and what committees and processes influence decisions, Chapter officers could become more effective in communicating our needs to the ASA.

Submitted by Earl Becker, President, 1-907-267-2407,
EarlB@fishgame.state.ak.us

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Chapter Representative Report

During the meetings, I presented the paper, "*Spatio-temporal Prediction of Snow Depth for Caribou Winter Range*," by myself and Ron Barry. I also attended many technical sessions and attended the Council of Chapters business meeting and workshop (see below).

The sessions I attended included:

- Advances in Statistical Climate Modeling and Analysis
- Environmental Monitoring
- Bayesian Shrinkage
- Spatial Statistics and Imaging Problems
- Space and Time in Ecology: Data, Models, and Inference
- Environmental and Ecological Statistics
- Random Effects Models: Bayesian Approaches
- Spatial Statistics in the Environmental Sciences
- Inference for Deterministic Simulation Models
- Statistical Assessment of Environmental Monitoring in the United States

If anyone wants any details on these sessions, such as who spoke, the latest happenings and general trends, please feel free to contact me (see below for contact information)

I also attended the annual Council of Chapters business meeting on August 7 at the Joint Statistical meetings of the ASA in Chicago. After a brief introduction by Marlene Egger, we were addressed by ASA President-Elect Jon Kettenring. The ASA has begun to do strategic planning for some possible restructuring. If anyone has ideas about this, they can contact Jon Kettenring. We were also reminded that ASA does have a visiting statistician program. If we would like one of the officers of ASA to visit us, we must contact Nancy Hiett.

Marlene Egger led a discussion of the frequency of the Chapter Recognition Award. Presently, one award is given to a Chapter every 5 years. Some chapters expressed the wish to give it more often, or perhaps several awards every 5 years. Others expressed concern that this would dilute the value of the award. If you have any ideas or concerns on this matter, please contact Jay Ver Hoef, and he will forward them to the appropriate officers. **During the meeting, Hal Geiger was given the Chapter Recognition award, and it was received by Jay Ver Hoef in Hal's absence.**

On the computer front, we were warned about using our Chapter Homepage and hotlinks. Apparently, the use of some hotlinks may jeopardize our tax status. The ASA was going to look into this more carefully, and hopefully there will be more information in the future. Uwe Koehn, the Council of Chapters Chair-elect, is starting a committee on the World Wide Web and its use to ASA chapters. Finally, note that the ASA membership is now on-line. Everyone is encouraged to check to make sure

the information is accurate, or, if you wish to be removed from the list, you must contact them.

During the Council of Chapters business meeting, there was an hour long tutorial on creating homepages using HTML language. During the second half of the meeting, I attended a roundtable discussion of the Traveling Course. The pilot Traveling Course was a new initiative by the ASA Council of Chapters, conceptualized at the January, 1995 COCGB meeting. Designed as a service to chapter members, particularly applied statisticians at the Masters level, the course was intended to attract speakers of national caliber and to achieve a cost savings by offering the same course at several chapters in a limited geographical region. The intent was to be low-cost to chapter members. A committee was formed from COC members (including myself) who had expressed interest in the course. A WWW homepage for the Traveling Course was created by the Alaska Chapter in December and continuously updated during this time. Survey responses were posted there to help chapters with common interests coordinate with each other. Two potential speakers were able and willing to offer a course in the limited time frame: Michael Kutner ("Logistic Regression"), and J. Stuart Hunter ("Beyond the Shewhart Paradigm".) These offerings were announced to the chapters. Approximately one quarter of ASA chapters responded, expressing considerable interest in one or both offerings. The traveling course committee actively facilitated proposals for trios of chapters to receive one or the other course. Five such trios were put forward to the COC Governing Board, which then voted to give Michael Kutner's "Logistic Regression" to Central Illinois Chapter, Central Indiana Chapter, and Chicago Chapter during the first week in June. The cost was kept to about \$25/person for a 1/2 day course. There will be an attempt to have 2, or possibly 3 trios of chapters give this a try. Also, they may try to videotape courses for really remote chapters. (Like us!) We shall try to get a course to come to Alaska this year. I will keep the Chapter informed about courses and dates.

Submitted by Jay Ver Hoef, Chapter Representative, 1-907-459-7278,
JVerHoef@fishgame.state.ak.us

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Making Statistics More Effective in Schools of Business (MSMESB)

Thanks to all local chapter members that participated in and contributed to the MSMESB 96 Conference. The conference took place at the University of Alaska, Anchorage, from June 27 through June 29, 1996. Special thanks to Dave Bernard, Earl Becker, and Allen Bingham who made an excellent presentation on Statistical Challenges of Managing Fish and Wildlife Resources in Alaska. We feel the conference was successful because of the contributions of many individuals from many disciplines that willingly gave their time and effort to help make statistics more effective in schools of business.

The conference proceedings are available on the WWW through the MSMESB 96 homepage at:

<http://local.uaa.alaska.edu/~ausmesb/>

Presentations that might be of interest to Alaska Chapter members are the plenary addresses by Blan Godfrey of the Juran Institute and that mentioned above by Bernard, Becker, and Bingham. Workshops presented by Bob Hogg of the University of Iowa and Stu Hunter of Princeton University, and a paper by Pat Fox of Fox Statistical Consulting in Fairbanks might be of general interest. There is a paper on Kenai River Sockeye Runs by Kim and Haley, and there are several papers related to sport fishing in Alaska by George Kessling and colleagues from Central Washington University. The proceedings contain abstracts of these and all other presentations, and in a few cases there are links to the full papers. If there is not sufficient information to contact authors, please send Don Marx your request for such information. Eventually, it will be possible to obtain this information from the conference home page.

Submitted by Donald L. Marx, 1-907-786-4152, AFDLM@uaa.alaska.edu

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Chapter's Internet WWW Page Has Moved!

Our WWW home page has recently moved, so update your bookmark files. The new URL: is:

<http://www.uafcs.alaska.edu/~asa/index.html>

Ron Barry (1-907-474-7226, FFRPB@aurora.alaska.edu) is our "webmaster". A special thanks to the University of Alaska Fairbanks for providing server space for us to maintain our web site.

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

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Applications of Recruitment Models to Fisheries Data

The Alaska Chapter of the American Fisheries Society is sponsoring a workshop on **Applications of Recruitment Models to Fisheries Data** on September 30 - October 4, 1996 in Anchorage, Alaska. The workshop will be taught by Dr. James P. Geaghan and Dr. E. Barry Moser, faculty members from the Department of Experimental Statistics, Louisiana State University, Baton Rouge, Louisiana. The objectives of the short course are to serve as a refresher on fisheries applications of recruitment models. In addition to the classic models such as those of Ricker and Beverton and Holt, applications of Beverton and Holt's Yield per Recruit model will also be

discussed. Another objective of the course is to review Virtual Population and Cohort Analysis. Applications of these techniques, including estimation of recruitment will be discussed. Both instructors have advanced degrees in fisheries or wildlife sciences and are adept at relating statistical concepts to field and laboratory applications. There should be ample time for interactive discussions.

Registration fees for the workshop are \$250.00 for AFS members and \$275.00 for non-members. The workshop will be held in the Comfort Inn in downtown Anchorage. The hotel has offered our group excellent lodging rates at \$55 (single or double) per night. Class size is limited to 35 people; registrants will be accepted on a first-come/first-serve basis. At least 20 registrants are needed by September 5 to ensure this workshop offering.

If you are interested in registering or have further questions, please make contact via one of the options below. At that point you will receive a registration acknowledgment, and further information concerning accommodation arrangements.

1. send an **email** message indicating a desire to register to:
• PatH@fishgame.state.ak.us
2. or, send a completed **registration form**, (or copy) to:
• Pat Hansen
Alaska Department of Fish and Game
Sport Fish / RTS
333 Raspberry Road
Anchorage, AK 99518 Ph: (907) 267-2441

The registration form can be obtained from Pat Hansen, or downloaded via the WWW at the following URL: <http://www.alaska.net/~fishak/atfiskwk.htm>

• *Submitted by Dana Schmidt, President of the Alaska Chapter of the American Fisheries Society, 1-907-260-2909, DanaS@fishgame.state.ak.us*

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News from the National ASA Office

Make a Difference: Adopt-a-School

Have you felt the nagging guilt of not doing your share as a volunteer? Would you like to have an impact on the education of today's youth?

It's easy to bring statistics into schools as part of the ASA's Adopt-a-School program. The Center for Statistical Education will smooth the way by sending you a set of materials to help with presentations. It also suggests other strategies to expand your repertoire of classroom activities. One idea is to get students to participate in the annual Poster and Project competitions. Nearly 400 did so last year, and the winners were rewarded with cash and plaques; the others learned more about a subject that

is too often slighted in mathematics curricula. You'll have the satisfaction of knowing you have enhanced the futures of students in a very substantive manner.

There are other ways for members to demonstrate support for statistical education endeavors. They can purchase a school membership in the ASA for a local school or encourage their corporations to donate to the Center as sponsors of Public Statistics Day or for other initiatives which the organization would like to sponsor such as staff development workshops for teachers in school systems which cannot get other types of funding.

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

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

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Continuing Education News

The Center for Statistical Education thanks all of those who made this year's Continuing Education Program at the JSM the most extensive ever. While complete attendance numbers are not yet available, the Center sponsored 42 courses and workshops during the course of the week for the first time. The staff is particularly grateful to the Advisory Committee on Continuing Education, who worked tirelessly to help make the program run smoothly, and to the presenters, whose offerings won plaudits from attendees.

The staff and committee remind members that the deadline looms soon for proposals for the Anaheim meetings in 1997. The deadline is October 16, 1996, and decisions will be made in January of next year. The west coast will be a particularly convenient venue for Alaska's members, who are encouraged at any time to write to the Center with their ideas for future courses and workshops or with any other suggestions which they think are worthy educational projects.

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

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Public Statistics Day Counts in Chicago

What happened when 16 statisticians met 160 students at the first Public Statistics Day in Chicago on August 2?

Students enjoyed the morning, and instructors experienced the satisfaction of having shared their expertise with groups of youngsters who might otherwise never have

had the opportunity to learn about statistics from professionals in the field. The young people in grades 4, 6, 8 and high school certainly would not have had the opportunity to travel from their summer schools to the Hyatt Regency, which graciously provided space and a refreshment break.

In addition to the Hyatt, CNA Insurance Companies, Eli Lilly, GM Research and Development Center, Merck Laboratories and Wyeth-Ayerst Research contributed financially to mini conference costs, which included students' transportation, audio visual rental, and other expenses.

The day featured presentations on a variety of subjects, ranging from "Counting M&Ms" to "Exploring Statistics in the Sports, Music and Auto Industries."

In the feedback meeting which followed, statisticians agreed that those sessions which encouraged students' active involvement, such as Roxy Peck's "How Many Chocolate Chips Are There in a Chocolate Chip Cookie?" were most effective. (The little ones voted that California cookies, baked by the teacher, were best!) All agreed that their time was well spent and the students attentive. They expressed enthusiasm for the concept and indicated they would do it again.

Plans are already underway to repeat Public Statistics Day in Anaheim, and ASA hopes the event will become a tradition at JSM.

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:
 - Milo Adkison
- Student Members:
 - Brian Taras

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 \$5,646.35 on 1 January 1996. The following summarizes the year-to-date Income and Expenditures:

Income:

- \$334.00 dues
- \$72.35 donations (mostly to help cover Annual Meeting barbecue costs)
- \$2,110.00 workshop fees (Annual Meeting and Video Short Course)
- \$115.60 Interest on bank accounts

\$2,631.95 Total Income

Expenditures:

- \$2,938.89 Total Annual Meeting Costs Including:
 - \$117.99 Barbecue Costs
 - \$111.43 Food & Beverage Costs for Meeting Room
 - \$300.00 Dr. Tanner's Honorarium
 - \$903.60 Dr. Tanner's Per diem Costs
 - \$1,505.55 Dr. Tanner's Travel Costs
 - \$0.32 Postage
- \$373.66 Continuing Education Costs (e.g., rental of video equipment, reproducing class notes, etc.)
- \$11.40 Bank charges

\$3,323.95 Total Expenditures

Total Income/Expenditures:

-692.00

Balance as of September 10, 1996:

\$4,954.35

All-in-all our year-to-date income/expenditures (a net loss of \$692.00) represents a slide into deficit spending compared to our 1995 net gain of \$637.51

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

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CHAPTER DUES ALERT

Please renew your membership. Dues may be sent to Allen Bingham, P.O. Box 221804, Anchorage, AK 99522-1804 or included with your membership dues for the national organization. Regular membership is \$10 and \$1 for students, make checks payable to AK ASA, and send to Allen Bingham.

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

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