DACC NEWS

Volume 33, Number 3, December 2017

ANIMAL CLINICAL CHEMISTRY

2017 Fall / Winter Edition

Message from the Chair

Summer has come and gone, the trees have changed color and lost their leaves in many parts of the country and snow might not be far off in the forecast. But - Summer can't go without a little recap on the Annual Meeting events. Since many of our members are East Coast-based, it is understandable that members have difficulty finding the funds and time for a West Coast meeting. We had a smaller than usual, but dedicated contingent of members attending our Sysmex supported Lunch and Learn and the Siemens sponsored evening reception and award where we presented the Award for Outstanding Contribution to Animal Clinical Chemistry. We could not continue to provide the educational and networking opportunities to our members without the valuable on-going support from our sponsors.

This year our Award recipient was Nancy Everds, DVM from Seattle Genetics. Nancy has been a longtime advocate for the DACC, spanning career opportunities on both the East and West coast. She has presented multiple times at DACC meetings and this year during the Lunch and Learn we were treated to some very interesting case studies that were generated from ADVIA hematology data. The Executive Committee felt the presentation deserved a wider audience, so Nancy had graciously agreed to present again for our Fall Webinar on November 8th. I hope you had the opportunity to tune in.

The highly informative Lunch and Learn was organized by our Chair-Elect Lisa (Manson) Blankenship and also included presentations by Kay Criswell and poster winner Charles Bull.

In This Issue:

Royden N. Rand Past-Chair Award

Best Poster Award

Photos from Annual Meeting

Award for Outstanding Contributions

Introducing DACC's New Officers

Kay presented "**Validation of the Sysmex XT-2000iV™ Hematology Analyzer for Bone Marrow Evaluation in Rats, Monkeys, Dogs, and Mice"**. This presentation highlighted an intriguing use of the hematology analyzer to automate one of the most tedious laboratory procedures while providing timely, consistent, accurate and reproducible data from four species.

Charles Bull presented excerpts from his poster: "**Performance Evaluation of Two Multispecies Hematology Analyzers Used in Nonclinical Drug Safety Studies."** This poster was highly relevant for those involved in veterinary clinical pathology as it showed a direct comparison between the two dominant hematology instruments used by DACC members and would be key information for those labs considering a switch or needing to compare data from multiple

Continued on Page 6

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DACC 2017 Committees

Nominating (Year as Chair)
Peter Szczerba (2017)
Joseph Sansone (2018)
Matthew Larkin (2019)
Jeff Burns (2020)
Doug Thudium*
**Exec Comm Rep*

Membership
Volunteers Needed!

Fund Raising
Jon Kimball
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**Exec Comm Rep*

Awards
Jon Kimball (Chair)
Kay Criswell
Bob Emmons
Doug Neptun

Scientific Program & Long Range Planning
Doug Thudium[1,4]
Amy Hudak[2]
Lisa (Manson) Blankenship[3]
Jon Kimball
Kay Criswell

Principal Organizer: 1: 2017 Spring Symposium, 2: 2017 Annual Meeting Symposium, 3: 2017 Annual Meeting Lunch & Learn, 4: 2018 Annual Meeting Symposium

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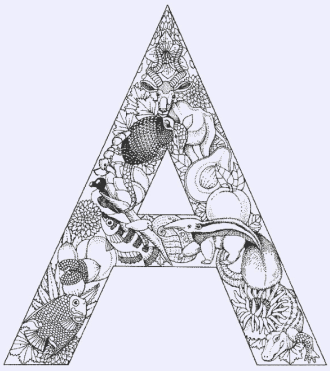
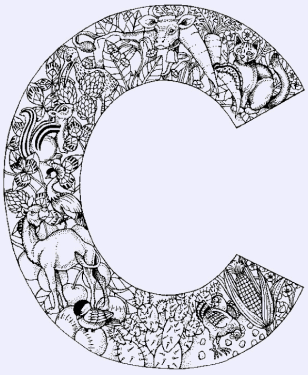
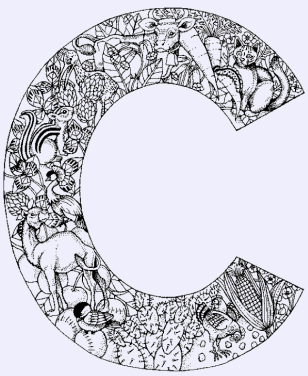
The Division of Animal Clinical Chemistry (DACC) welcomes all persons interested in advancing clinical laboratory science in animals by promoting and encouraging the study, exchanging knowledge, and expanding and improving the practice of clinical laboratory science in animals.



Our division provides a forum for sharing of information relevant to methods of analysis, reference intervals for different animal models, selection of appropriate species for research, and feasibility of transferring relevance of the data to human medicine. The DACC supports the development of methods to detect specific target organ effects and cellular changes associated with xenobiotic agents and/or disease processes.





The Division publishes this newsletter and sponsors regional and national meetings as a means for promoting education, research, and service. We encourage members to pursue professional interactions with AACC as well as within other professional groups. Our membership represents scientists working in interdisciplinary fields, industry, academia, and governmental laboratories.

Amy Hudak Receives the Royden N. Rand Award

Since 2005, the DACC has had the tradition of honoring its immediate Past-Chair with the Royden N. Rand Past-Chair named award. Dr. Rand was integral in the formation of the DACC in the mid 1970's, and the Past-Chair award, conveyed in his honor, is presented in recognition of the time, work and dedication to service that is exemplified by the role of the Division Chair.

In honoring that tradition, we recognize and honor Amy Hudak for her leadership as she finishes her tenure as Past-Chair at the end of 2017. Amy is currently the Lab Manager at Boehringer Ingelheim Pharmaceuticals Inc. in Ridgefield, CT with responsibility for the management of Clinical Pathology laboratories. Amy's Leadership of the DACC for the past few years has been advantaged by her clinical pathology skills in multispecies preclinical safety assessment. During her tenure(s) in varied DACC roles, Amy organized and moderated educational sessions focused on Applications of Mass Spectrometry in Drug Development (2015 Lunch and Learn) and Biomarkers in Drug Induced Vascular Injury (2016 Spring Meeting), and contributed to program planning, finances/fund raising, and numerous administrative roles enhancing the impact of the DACC.

Amy's dedication to the DACC dates from her initial service as a CliniChem-96 DACC Representative followed by her contributions as DACC Secretary for 2000 – 2003 and culminating in her leadership role for the DACC as Chair-Elect 2015, Chair 2016, and Past-Chair in 2017.

During the interim years in elective office Amy has continually served in a variety of advisory and guru capacities bringing her extensive knowledge and commitment to the Division to improve the membership, content, effectiveness and value added of DACC programs.

We thank Amy for her service to the DACC and congratulate her as the latest recipient of the Royden N. Rand Past-Chair Award.

AACC DIVISION OF ANIMAL CLINICAL CHEMISTRY

The Royden N. Rand
Division of Animal Clinical Chemistry
Past-Chair Award

PRESENTED TO

Amy Hudak, BSMT(ASCP), MPA

In Recognition of Exemplary Leadership and Dedication
as Chair of the AACC Division of Animal Clinical Chemistry

CHAIR-ELECT	CHAIR	PAST-CHAIR
2015	2016	2017

Charles Bull Receives DACC's 2017 Travel Award

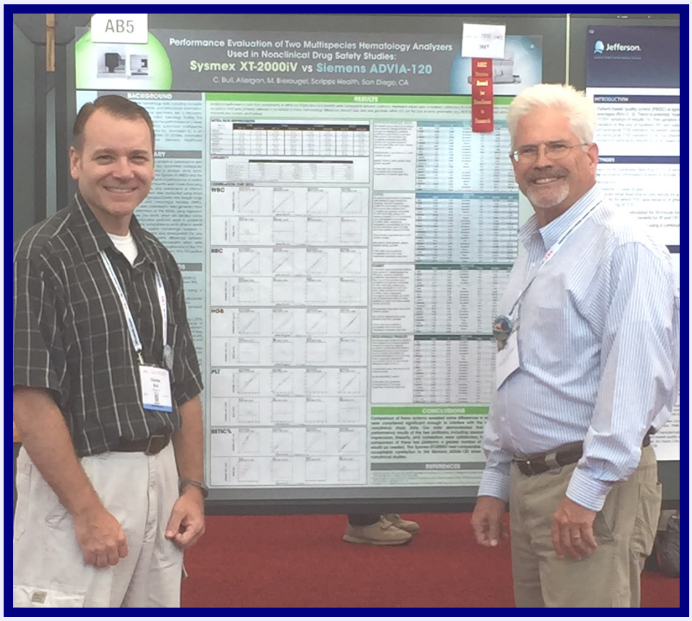
Best Poster Presented at the 2017 AACC Annual Meeting, San Diego, CA In the Category of Animal Clinical Chemistry

Comparison of Two Multispecies Hematology Analyzers Used in Nonclinical Drug Safety Studies: Sysmex XT-2000iV vs Siemens Advia 120

***C. Bull*[1],** M. Bieraugel[2], [1]Allergan, LLC, Irvine, CA, and [2]Scripps Health, San Diego, CA

Background: Complete blood counts and white blood cell differentials are standard panels used in the assessment of drug safety. This evaluation was conducted to compare the Sysmex XT-2000iV automated hematology analyzer to the Siemens Advia 120.

Methods: Analytical performance of intra-run imprecision and linearity were assessed using quality control material. Blood specimens from laboratory animals originally collected for nonclinical drug discovery and development studies, (Sprague-Dawley Rats n=58, Dogs n=32, NZW Rabbits n=19, Cynos n=45), were analyzed side by side for routine hematology parameters on both platforms. Correlation data generated from these same sample analyses were evaluated using regression statistics and percent bias.



Results: Analytical performance data from assessments of within-run imprecision and linearity were comparable between platforms. Regression values were considered satisfactory (R ≥0.90) across all species analyzed, with exceptions that were primarily believed to be related to minor methodology differences. Percent bias data was generally within ±5%, yet the bias of some parameters (e.g. RETIC%), were greater and attributable to inherently low numeric result values.

Conclusions: Comparison of these systems revealed some differences in results, but none were considered significant enough to interfere with the interpretation of nonclinical study data. Our data demonstrated that the analytical performance results of the two platforms, including assessments of intra-run imprecision, linearity, and correlation, were satisfactory. To fully validate a comparison of these two platforms a greater number of sample analyses would be needed. The Sysmex XT2000iV had comparable performance and acceptable correlation to the Siemens Advia 120 when used to support nonclinical studies.

Division of Animal Clinical Chemistry
American Association for Clinical Chemistry

AACC DIVISION OF ANIMAL CLINICAL CHEMISTRY

DACC Travel Award

This certificate is awarded on this 3rd day of August, 2017 to:

Charles Bull
Allergan, LLC, Irvine, CA

For the Outstanding Poster Presented at the 2017 AACC Annual Meeting In the Category of Animal Clinical Chemistry

2017 DACC Recognition of Outstanding Poster

"Comparison of Two Multispecies Hematology Analyzers Used in Nonclinical Drug Safety Studies: Sysmex XT-2000iV vs Siemens Advia 120"
C. Bull[1], M. Bieraugel[2], [1]Allergan, LLC, Irvine, CA, and [2]Scripps Health, San Diego, CA

Date Issued: August 3, 2017

DACC Chair: Douglas Thedinga
DACC Secretary: Peter Szygenda
Award Committee: Jon P. Kimball

Message from the Chair (… *continued from pg.1*)

lab sites. Fortunately, the data indicated that both instruments provided excellent data and were generally in close agreement for most parameters.

Spring meeting preparations are underway with a tentative site selection of Novartis in East Hanover, NJ. A specific date has not been selected, but our Spring meeting is typically held late April to early May. This meeting is held in conjunction with the Siemens User Group meeting and requires coordination for multiple venues and dates – So stay tuned for further information.

As I move off to the role of Past-Chair in 2018 I would like to thank Amy Hudak for her service to the DACC the past three years as Chair-elect, Chair and Past-Chair and know that she will stay involved with supporting the organization. Also, we will welcome Lisa (Manson) Blankenship into the role of Chair for 2018 and a new Chair-Elect will be selected this Fall.

For the 2018 Annual meeting I attempted to set up a Joint Symposium with the Tumor Markers Division, but the short deadline imposed by the AACC and the time constraints of speakers to coordinate did not allow for this collaboration to work. So I apologize, but I know we can provide a high level Lunch and Learn experience and other networking opportunities for the 2018 meeting in Chicago.

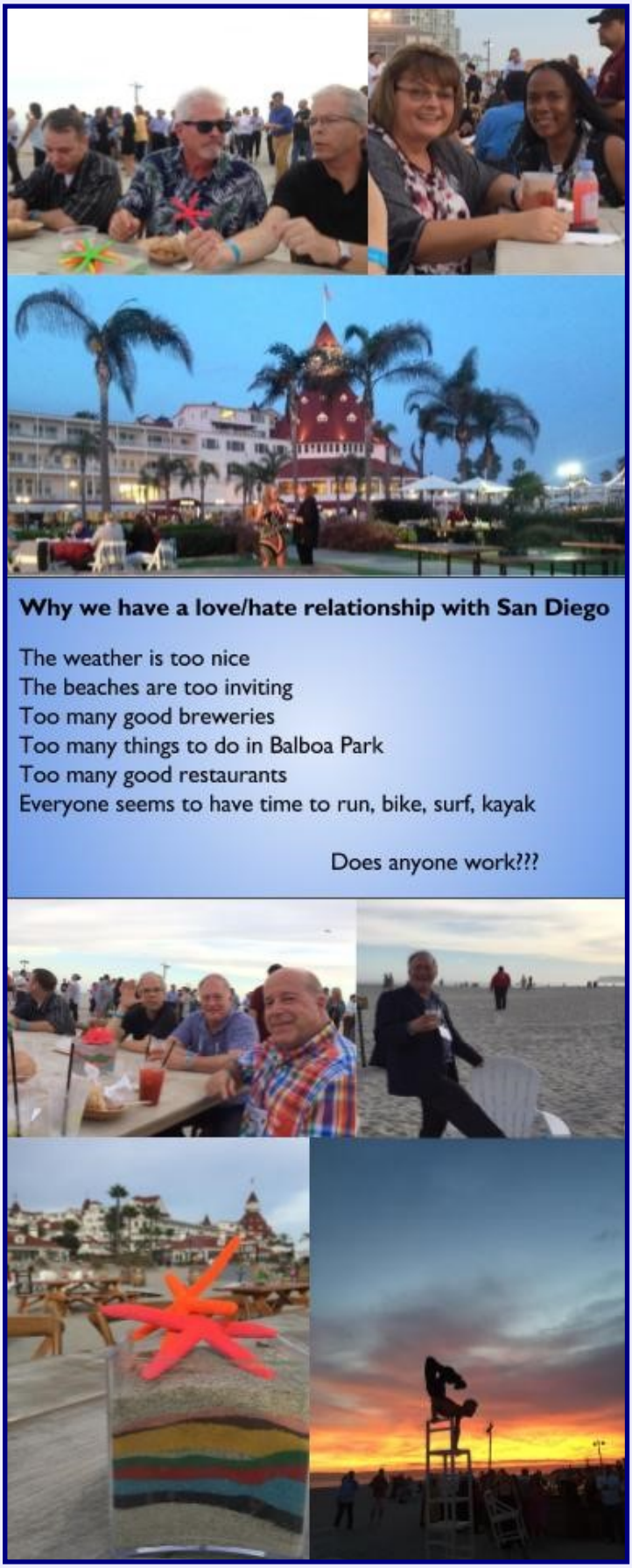
As Division Chair I get to attend meetings for the AACC Science and Practice Core Committee (SPCC). This group allows Division Chairs to input on scientific strategy for the AACC to pursue, as well as gaining insight into the greater functions of the AACC. Because the Chairs get to meet for at least a full day and get to know each other personally, one huge opportunity that I see is for collaboration between various Divisions with overlapping interests. There seems to be good interest among the Divisions for these interactions. This group is less than two years old, but I see great potential in the near future.

By providing the educational and networking opportunities via the Spring Meeting, the Annual Meeting, a Fall Webinar and, of course, the excellent newsletter, the DACC is likely the most active of all AACC Divisions in supplying information to their members. To continue this high level of activity we are always seeking new and innovative people and ideas to further our mission. Also, constructive comments about the organization, meeting topics and new communication technology are always welcome and taken under consideration by the Executive Committee. As always, I want to remind our members that any Board meeting at the Spring or Annual meetings are open to any DACC members who would like to attend, to voice opinions, or get a better understanding of how the organization functions. Attending our Board meetings is often a gateway to greater participation in the Division. I speak for those of us who have been in Division leadership positions – that it is truly a worthwhile experience both personally and professionally. Please consider becoming more involved in the DACC.

Doug

Doug Thudium
DACC Chair

AACC Annual Meeting 2017
San Diego Beach Party



Photos from the 2016 AACC/DACC Annual Meeting

See More Photos from the 2017 Annual Meeting at:
https://daccphotos.shutterfly.com/pictures

Nancy E. Everds DVM, Diplomate ACVP Receives the 2017 DACC Award for Outstanding Contributions to Animal Clinical Chemistry

During a DACC awards reception at this year's AACC Annual Meeting the DACC Executive and Award Committees proudly presented **Nancy Everds**, from Seattle Genetics, with the 2017 *DACC Award for Outstanding Contributions to Animal Clinical Chemistry*. This recognition reflects Dr. Everds' extensive contributions and leadership in several areas of clinical pathology. Dr. Everds is is presently Director of Toxicology at Seattle Genetics.

Dr. Everds has authored or co-authored over 50 publications including 36 peer-reviewed manuscripts, 4 books/chapters, and 12 posters. As an invited expert she has presented on the various aspects of animal clinical chemistry over 49 times at scientific congresses and professional society meetings.

For a more comprehensive description of Nancy's focus of research, accomplishments, and contributions please see the July Edition of the DACC *News*.

Abstract Deadline
Feb. 22, 2018

2018 AACC
Annual Meeting
Chicago, IL

For Award Consideration
Submit Your Abstract for
Inclusion in the
Animal Clinical Chemistry Session

The **DACC Travel Award** is given for the best poster featuring outstanding research in the area of Animal Clinical Laboratory Medicine presented at the Annual Meeting by DACC members, associates, or trainees (in academia or industry) in multispecies Clinical Pathology. Up to two posters may be selected for this award based on merit.

The **Travel Award** consists of a certificate of scientific merit, a **$500 cash award**, and travel reimbursement (up to $1000) to support the awardees' expenses to attend (registration fee waived) a DACC Spring Meeting. This Award is Sponsored by the DACC Executive and Awards Committees.

Introducing DACC's New Officers for 2018

Madhu Sirivelu
Pfizer - Andover, MA
DACC's 2018 Chair-Elect

Madhu obtained his veterinary medical degree from Madras Veterinary College in Chennai, India in 2004 and his PhD in Comparative Medicine & Integrative Biology from Michigan State University in 2008. After his PhD, Madhu stayed at Michigan State University completing a residency in Veterinary Clinical Pathology and became a Diplomate of the American College of Veterinary Pathology in 2012. During his residency, Madhu was involved in a number of projects on instrument comparison, assay validation and laboratory quality control and assurance programs. He was a Lecturer in Clinical Pathology at the University of Pennsylvania where his responsibilities included oversight of the clinical pathology laboratory and diagnostic clinical pathology. He transitioned to a Principal Pathologist position at Amgen, in San Francisco, CA allowing him the opportunity to explore toxicologic clinical pathology and drug safety assessment. Madhu moved to Pfizer in 2017 and currently works in Global Biomarkers, Drug Safety Research and Development at Pfizer in Andover, MA. He is a DACC member and from 2016, he has been a co-editor of the DACC Newsletter. Madhu is excited to serve as the Chair-Elect/Chair of DACC and engage with the close knit network of DACC members who share the same passion and interest in science and advancing human health that he has.

Jeff Burns
Boehringer Ingelheim Pharmaceuticals
DACC 2018 Nominating Committee

Jeff received his BS in biochemistry from the University of New Hampshire. Upon graduation he moved to New Haven Connecticut and accepted a position in a small biotech genomics company. His responsibilities there started with general genomics laboratory work (PCR, transformations and sequencing) and moved to data analysis (primer design and SNP scoring). From there he accepted a position at Boehringer Ingelheim Pharmaceuticals in the Mechanistic Toxicology group. He began as the laboratory manager with a primary goal of bringing the lab to GLP compliance. With a change in management, the group priority changed to a more research early safety focus and he transitioned to the immunotoxicology group. While in the immune-tox group Jeff primarily focused on novel assay design, flow cytometry and platelet assessments.

There was a desire to GLP validate the peripheral blood immunophenotyping assay and Jeff worked with the Clinical Pathology (Amy Hudak's) laboratory, implementing the assay, the analysis software and a reporting platform. With his compliance experience and an opening in the Clinical Pathology laboratory, he accepted a position there in August 2014. Since Jeff joined the group his main focuses have been Hematology, Coagulation, Microscopics while continuing to grow the flow cytometry and biomarker capabilities.

Jeff joined DACC at the same time he began working in the Clinical Pathology group and became an active member right away. As a member of Amy's group she has encouraged him to attend the Executive Committee meeting at the Spring and Annual Meetings. He was also involved in judging the division poster contest at the annual meeting the last two years. Jeff is looking forward to continuing his involvement with the DACC.

2018 Division of Animal Clinical Chemistry Award for Outstanding Contributions to Animal Clinical Chemistry

The DACC has established a Division Award which recognizes Outstanding Contributions in the field of Animal Clinical Chemistry. This Award consists of a plaque, an honorarium and a reception for the individual so honored, and is usually presented at the AACC Annual Meeting. The DACC Awards Committee would like to invite all members and friends of the DACC to nominate such an honoree.

The Award is to recognize the achievements of an individual who has made significant contributions in the field of animal clinical chemistry in its broadest sense including teaching, training, practicing and research. Activities and achievements of this person, which have significantly benefited the science and advancement of this discipline, as well as enhanced the public awareness and understanding, are also taken into consideration.

The recipient of this prestigious award will be selected from nominations submitted by an AACC member or group of members such as division, local section, committee or commission. Nominations will also be considered from non-member individuals and organizations. Please submit your nomination by letter or e-mail. The submission should consist of a statement of the nominee's accomplishments and a current curriculum vitae and bibliography. Two seconding letters of support from colleagues detailing the candidate's accomplishments not given in the primary letter of nomination should be included. The latter will play an important role in the Awards Committee deliberations.

Previous recipients of the DACC award were:

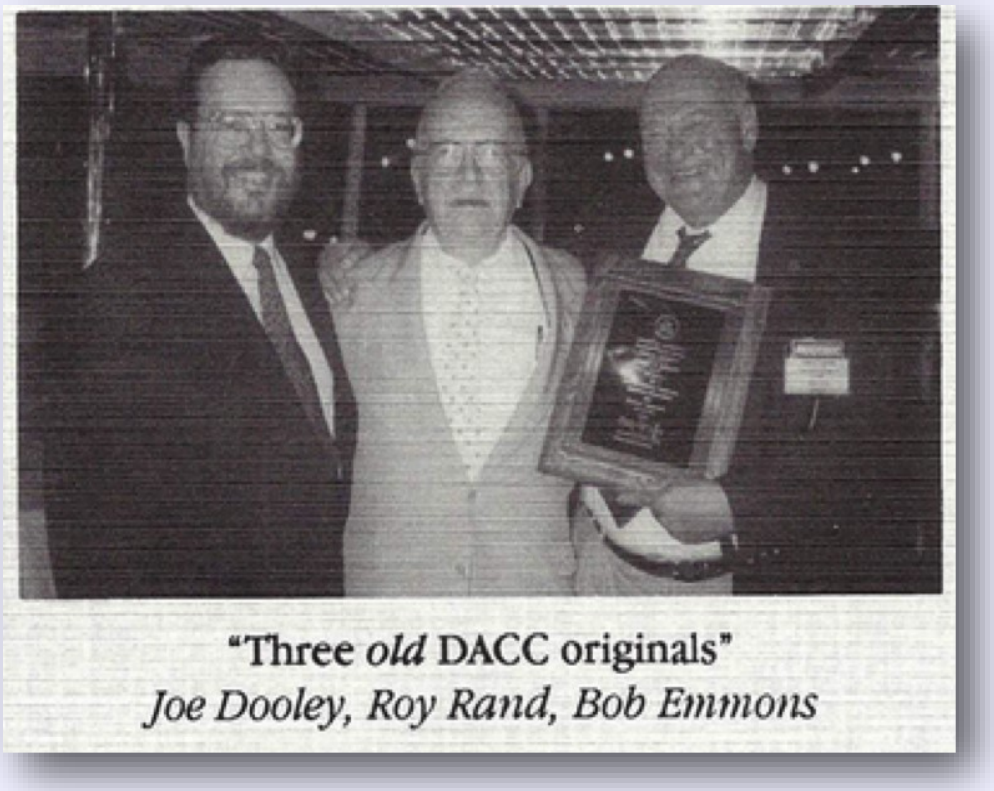
Jiro J. Kaneko, DVM, PhD	1993	Douglas J. Weiss, DVM, PhD, DACVP	2006
Eitan Bogin, PhD	1994	W. Jean Dodds, DVM	2007
Donald T. Forman, PhD	1995	N. Leigh Anderson, PhD	2008
Robert E. Emmons, BS	1996	Kay A. Criswell, PhD, DABT	2009
Walter F. Loeb, DVM, PhD	1997	P. David Eckersall, BSc, MBA, PhD	2010
Thomas J. Reimers, PhD	1998	Peter J. O'Brien, DVM, DVSc, PhD	2011
Jon P. Kimball, PhD	1999	Jean-Pierre Braun, Dr Vét, Dr Sc,	2012
Dai T. Davies, PhD	2000	Joseph F. Dooley, PhD, DABCC, FACB	2013
Walter E. Hoffmann, DVM, PhD	2001	Mary M. Christopher, DVM, PhD, ACVP	2014
John W. Harvey, DVM, PhD	2002	David Zelmanovic, PhD	2015
Douglas A. Neptun, BS, MT/ASCP	2003	William Reagan, DVM, PhD, Dipl ACVP	2016
Charles C. Capen, DVM, PhD	2004	Nancy E. Everds, DVM, Dipl ACVP	2017
John H. (Tim) Lumsden, DVM, DACVP	2005		

Nominations must be received no later than March 2, 2018.
Please submit completed nomination documents to:
Jon P. Kimball, PhD, DACC Awards Committee
1732 Old Lystra Road, Chapel Hill, NC 27517, 919-967-4016
Email: JonKimball@msn.com

Remembering Our History

1996 Division of Animal Clinical Chemistry Award for Outstanding Contributions to Animal Clinical Chemistry to Robert E. Emmons

circa 1996



"Three *old* DACC originals"
Joe Dooley, Roy Rand, Bob Emmons

DID YOU KNOW?

a) In 1988 Aivars Ramans, Syntex Research and Jerry Kaneko, University of California at Davis organized a program on Applications of Recombinant DNA Technology for the Third Western Regional DACC Meeting? For many members this provided the first formal introduction to the then new DNA Technologies. Syntex Research in Palo Alto, CA hosted the meeting.

b) The DACC's first Annual Meeting button was distributed in 1987. It was given out at the DACC mixer, which was also the time of the announcement of the DACC as the AACC's first permanent division acceptance. The announcement to the general DACC membership appeared in the Fall 1987 issue of this newsletter, Vol 3, No.2.

70th AACC Annual & Lab Expo

AACC

Jul 29th-Aug 2, 2018

Chicago, IL USA

Short Scripts.....

American College of Toxicology
Annual Meeting
November 4–7, 2018
West Palm Beach, FL

ISACP 2018 Tokyo

International Soc. For Animal Clinical Pathology XVIII Congress
August 4-8, 2018
Tokyo, Japan

ACVP / ASVCP ANNUAL MEETING
November 3-7, 2018
Washington, DC

STP 37th Annual Symposium
"Keeping It Renal"
June 16–21, 2018
Indianapolis, Indiana

PLAN NOW
To Attend the
AACC / DACC
Annual Meeting
July 29-August 2, 2018
Chicago

The Membership of the DACC Extends a Huge *THANK YOU* to Sysmex America, for Hosting the DACC Lunch & Learn!

All DACC Committees Are Seeking Members to Join Every Aspect of the DACC Depends on the Volunteerism of People Like YOU!