I MINA'BENTE NUEBI NA LIHESLATURAN GUÅHAN 2008 (SECOND) Regular Session

Executive Committee Resolution No. 255

Introduced by:

J. T. Won Pat, Ed.D. Tina Rose Muña Barnes <u>Dr. David L.G. Shimizu</u> Frank F. Blas, Jr. Edward J.B. Calvo B. J.F. Cruz James V. Espaldon Mark Forbes Judith. P. Guthertz, DPA F. T. Ishizaki J. A. Lujan v. c. pangelinan A. B. Palacios, Sr. R. J. Respicio Ray Tenorio

Relative to congratulating and commending Dr. Sven-Erik Bursell for his contributions in educating the community on the prevention and control of diabetes, and to welcoming him to Guam as a Guest Speaker at the Ninth (9th) Annual Guam Diabetes Association Conference.

1 BE IT RESOLVED BY THE EXECUTIVE COMMITTEE OF *I* 2 *MINA'BENTE NUEBI NA LIHESLATURAN GUÅHAN*:

3 WHEREAS, Mr. Sven-Erik Bursell, Ph.D., is an Investigator in the 4 Section on Eye Research and the Director of the Joslin Vision Network, as well 5 as an Associate Professor of Ophthalmology at Harvard Medical School; and

6 WHEREAS, after receiving his doctoral degree in Biophysics from
7 Boston University, he began biomedical and biophysical research at Joslin
8 Diabetes Center, focusing on diabetic complications in the eye; and

9 WHEREAS, Dr. Bursell studies molecular and biochemical events and 10 mechanisms leading to the development of pathological changes and 11 subsequent vision impairment. He has also developed diagnostic and 12 therapeutic instrumentation for assessing ocular physiology; and

WHEREAS, Dr. Bursell is a reviewer for a number of prestigious
journals in ophthalmology and diabetes, and has been a scientific reviewer for
National Eye Institute study sections of the National Institutes of Health; and

16 WHEREAS, Dr. Bursell pioneered the development of the Joslin Vision
17 Network eye care program and the Joslin Vision Network Comprehensive
18 Diabetes Management program; and

WHEREAS, diabetic retinopathy (a disorder of the retina that can lead to vision loss and/or blindness) will, at some point, affect everyone with diabetes. However, fifty percent (50%) of people with diabetes do not receive appropriate eye care in time to prevent vision problems or preserve vision.

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Dr. Bursell is combating diabetic eye disease on two (2) fronts: early detection
 and accessibility to treatment; and

WHEREAS, the retina is the neurosensory "brain" of the eye and becomes compromised with insufficient blood flow. Dr. Bursell and his colleagues pioneered physiological diagnostic tests and were the first to show that blood flow to the retina is reduced in patients with poorly controlled early-stage diabetes even before they have developed eye disease; and

8 WHEREAS, in collaboration with George L. King, M.D. and Lloyd P. 9 Aiello, M.D., Ph.D., Dr. Bursell also found that this reduced blood flow 10 follows activation of protein kinase C-beta (PKC-beta). During the past 11 decade, Drs. Bursell, King and Aiello developed and tested several novel therapies, including, a PKC-beta inhibitor that may halt damaging 12 proliferation of blood vessels in the retinas of people with diabetes. The 13 results from these trials have demonstrated the efficacy of the PKC-beta 14 inhibitor for reducing the risk of moderate vision loss, and have supported an 15 16 application to the Food and Drug Administration, which has deemed the drug 17 "Approvable" pending additional study data; and

WHEREAS, drawing on his background in theoretical physics, biophysics and bioengineering, Dr. Bursell was instrumental in developing noninvasive systems for measuring retinal blood flow, useful not only for early diagnosis but also for rapid evaluation of the effectiveness of therapeutic agents; and

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WHEREAS, working with Lloyd M. Aiello, M.D., Dr. Bursell developed 1 2 the Joslin Vision Network (JVN), which uses Joslin's advanced diagnostic 3 technology to evaluate patients for diabetic eye disease in ambulatory and 4 primary care settings at more than sixty (60) sites around the United States. 5 The tests take about ten (10) minutes, do not require dilation of the pupil and can be administered by non-physicians. The images are then transmitted 6 7 through a telemedicine network to Joslin specialists who analyze them, 8 prescribe treatments or referrals as necessary and transmit the information 9 back to the site in the case of emergent conditions, before the patient leaves; 10 and

11 WHEREAS, studies have shown that these examinations through the 12 non-dilated pupil have diagnostic accuracy comparable to a dilated exam and 13 at a much lower cost. To date, some forty thousand (40,000) patients have been evaluated in sites that include Native American Health Services and 14 15 Veterans Administration clinics. Dr. Bursell predicts that in the next decade, 16 Joslin will be able to offer not only diagnosis in remote locations, but also 17 corrective treatment with robotic lasers operated through remote-control 18 telemedicine networks, using surgical simulation technologies; and

WHEREAS, the JVN increases access to appropriate eye care, reduces
patient costs and, through the use of participating Centers of Excellence,
provides patients with the best eye care regardless of geographic or cultural
barriers; and

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WHEREAS, Dr. Bursell's extensive knowledge and experience in
 diabetes-related vision impairment diagnosis, treatment and prevention will
 be very helpful to the people of Guam; and

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WHEREAS, Guam is proud and honored to welcome Dr. Sven-Erik
Bursell to be a Guest Speaker at the Ninth (9th) Annual Guam Diabetes
Association Conference to share his expertise in the prevention and control of
diabetes-related vision impairment; now, therefore, be it

8 **RESOLVED**, that the Executive Committee of *I Mina'Bente Nuebi Na* 9 *Liheslaturan Guåhan* does hereby, on behalf of *I Liheslaturan Guåhan* and the 10 people of Guam, commend and congratulate Mr. Sven-Erik Bursell, Ph.D., for 11 his contributions in educating the community on diabetes, and does welcome 12 him to Guam as a Guest Speaker at the Ninth (9th) Annual Guam Diabetes 13 Association Conference; and be it further

RESOLVED, that the Speaker and the Chairperson of the Executive
Committee certify, and the Secretary of the Legislature attest to, the adoption
hereof and that copies of the same be thereafter transmitted to Mr. Sven-Erik
Bursell, Ph.D.; to the Guam Diabetes Association; and to the Honorable Felix
P. Camacho, *I Maga'lahen Guåhan*.

DULY AND REGULARLY ADOPTED BY THE EXECUTIVE COMMITTEE OF *I MINA'BENTE NUEBI NA LIHESLATURAN GUÅHAN* ON THE 7TH DAY OF NOVEMBER 2008.

JUDITH T. WON PAT, ED. D. Speaker and Chairperson, Executive Committee

TINA ROSE MUÑA BARNES Senator and Secretary of the Legislature