

The Associated Students  
Of  
New Mexico State University

BILL #161

The attached legislation has been properly approved by the members of the Sixty Second Senate of the Associated Students of New Mexico State University in accordance with ASNMSU Law.



Bethany Mendoza, ASNMSU Chief Senate Clerk

2/22/2019

Date



Linda Cisneros, ASNMSU Vice President

02/22/2019

Date

I, Emerson Morrow, hereby sign into law this attached piece of legislation.



Emerson Morrow, ASNMSU President

2.25.2019

Date

**SENATE OF THE ASSOCIATED STUDENTS  
OF NEW MEXICO STATE UNIVERSITY**

**BILL #161**

SIXTY-SECOND SENATE

2018-2019

Introduced by: Shareef, Radaideh, Jha, Mucundanyi, Seyedkavoosi. Date: 02/05/2019  
Referred to: Rules, Community Affairs, Finance Date: 02/07/2019  
Senate Action: PASSED Date: 02/21/2019

LXII-18-19

**AN ACT**

1 MAKING AN APPROPRIATION TO THE ACCOUNT OF MATHEMATICS GRADUATE STUDENT  
2 ORGANIZATION. BE IT ENACTED BY THE SENATE OF THE ASSOCIATED STUDENTS OF NEW MEXICO  
3 STATE UNIVERSITY.

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5 Section 1: Purpose of Act.

6 To provide funding for one student (1 male) to present at the Mathematics in the City Beautiful: PDEs, SDEs,  
7 Control Theory, and Applications to Finance and Life Sciences in Orlando, FL from December 14-16, 2018.

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9 Section 2: Main Provisions.

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**LINE ITEMS**

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Hotel (1 room @ \$90.00/night x 3 nights) \$ 270.00

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Airfare (1 ticket @ \$414.00/ticket) \$ 414.00

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(El Paso, TX to Orlando, FL) (Round-trip)

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Intra-city travel (1 fee @ \$95.00/fee x 3 fees) \$ 285.00

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(Orlando, FL)

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Registration fee (1 fee @ \$50.00/fee) \$ 50.00

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**SUBTOTAL**

**\$ 1019.00**

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Less Council Funds (Graduate Student Council) \$ 400.00

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**SUBTOTAL**

**\$ 619.00**

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Less Matching Funds (55%) \$ 341.00

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**TOTAL APPROPRIATION**

**\$ 278.00**

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27 Section 3: Appropriation.

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Two hundred seventy-eight dollars and no cents (\$278.00) shall be appropriated to the account of the Mathematics

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Graduate Student Organization from the ASNMSU Surplus Account.

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31 Section 4: Rationale.

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Tuan Phan is a graduate student in the Dept. of Mathematics and was invited to give a 30-min talk in the conference

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Mathematics in the City Beautiful: PDEs, SDEs, Control Theory, and Applications to Finance and Life Sciences at

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the University of Central Florida, Orlando, FL from December 14-16, 2018. The title of their presentation was *A*

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*Stochastic Cholera Epidemic Model with a General Nonlinear Incidence*. The purpose of this research was to

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investigate a cholera epidemic model considering the influence of social factors and environmental noises. This

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study showed that white noise has a great effect on the spreading of the disease. It was concluded that the dynamics

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of the model is largely determined by the stochastic basic reproduction number and noise intensities. This opens up

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the opportunity for future research on the stability of stochastic systems, a topic they intend to explore in my doctoral dissertation.