DEPARTMENT OF MATHEMATICS AND STATISTICS

WORKSHOP ON CANCER RESEARCH

BREAST, LUNG, COLON AND BRAIN CANCER

Guest participants from American Cancer Society

Dr. Robert Smith, Ph.D., Director of Cancer Screening National Office
Dr. James Kepner, Ph.D., Vice President of Statistics and Evaluation Center

Date and Time: January 14, 2010 10:00 AM - 4:30 PM
January 15, 2010 10:00 AM - 2:15 PM
Place: Dean of Engineering Conference Room (ENB 109)

USF PARTICIPANTS: STATISTICS CANCER RESEARCH TEAM

Dr. Chris P. Tsokos
Distinguished University Professor, Mathematics & Statistics

Dr. Gan Ladde
Professor, Mathematics & Statistics, Chief-Editor JSAP

Dr. Frank Vrionis
M.D., M.P.H., PhD., Director, Spinal and Skull Base Oncology, Professor of Neurosurgery, Orthopedics & Oncology, H. Lee Moffitt Cancer & Research Institute.

Dr. R. Wooten
Assistant Professor, Mathematics & Statistics
Doctoral Students in Statistics

Ms. Chunling Cong
Mr. Yong Xu
Mr. Bong-Jin Choi
Mr. Keshav Pokhrel
Mr. Venkateswara Mudunuru

January 14, 2010

10:00 am - 10:15 am  Professor Chris P. Tsokos, Introductions and Welcome Remarks

10:15 am - 12:00 pm  Present and Proposed Research Efforts in Breast, Lung, Colon and Brain Cancer Using Real Data
- Malaysia Data Base
- CPS-II (Cancer Prevention Study)
- SEER (Surveillance and Epidemiology End Results)

12:00 pm - 01:30 pm  Luncheon at USF Top of the Palms

01:30 pm - 02:20 pm  Ms. Chunling Cong, Ph.D. Student in Statistics
- Nonparametric and Parametric Analysis of Treatment Effectiveness of Breast Cancer
- Statistical Modeling of Relapse Time of Breast Cancer with Different Treatments
- Markov Modeling of Breast Cancer States
- Statistical Analysis of Lung Cancer Mortality Time
- Sensitivity Analysis of Breast Cancer with Respect to Doubling Time

To be Continued
02:20 pm - 02:30 pm  Ms. Zahra Kottabi, Ph.D. Student in Statistics
   - Preliminary Findings and Schematics Newtwork of Data.
02:30 pm - 03:30 pm  Mr. Yong Xu, Ph.D. Student in Statistics
   - Probabilistic comparison of survival analysis models using simulation and cancer data
   - Identify attributable variables and interactions in breast cancer
   - Statistical modeling of breast cancer using differential equations
   - Power law process in cancer analysis
03:30 pm - 04:30 pm  Round Table Discussion,
   all participants and future research on breast and lung cancer

January 15, 2010

10:00 am - 10:45 am  Mathematics & Statistics Lounge Room
   Preliminary Discussion on Brain and Colon Cancer
   Dr. Frank Vrionis and Dr. Chris P. Tsokos
11:00 am - 11:20 am  (Deans Conference Room) Mr. Bong-Jin Choi, Ph.D. Student in Statistics
   - Understanding SEER and CPS-II Databases
   - Regional Behavior
   - Data Manipulation
   - Parametric and Nonparametric Survival Analysis
11:20 am - 12:15 pm  Importance of Proposed Research in Brain Cancer
   Dr.Frank Vrionis, Dr. Chris P. Tsokos and Mr. Keshav Pokhrel,
   Preliminary Findings
12:15 pm - 01:30 pm  Lunch at USF Top of Palms
01:30 pm - 01:50 pm  Colon Cancer- Preliminary Findings and Schematics Network of Data,
   Dr. Chris P. Tsokos and Venkateswara Mudunuru,
   Ph.D student in Statistics
01:50 pm - 02:15 pm  Summary and Closing Remarks of the Workshop
   - Professor Chris P. Tsokos