Larry W. May Jr.

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EDUCATION

Ph.D. Nuclear Chemistry*, August 2015
Texas A&M University, College Station, TX
4.00/4.00 GPR
*includes 18 graduate hours in Physics, this fulfills the SACS Faculty Guidelines (Standard 3.7.1a) for both Chemistry and Physics

Bachelor of Science – Double Major in Chemistry and Mathematics, May 2007
Texas A&M University, College Station, TX
3.26/4.00 GPR Overall

RESEARCH POSITIONS

Research Assistant: June 2007 – July 2015
Advisor: Dr. Sherry Yennello
Topic: Heavy Ion Collisions in Fermi Energy Range / Nuclear Equation of State
Cyclotron Institute, Texas A&M University, College Station, TX

Undergraduate Research Assistant: January 2006 – May 2007
Advisor: Dr. Joe Natowitz
Topic: Heavy Ion Collisions in Fermi Energy Range
Cyclotron Institute, Texas A&M University, College Station, TX

Undergraduate Laboratory Technician: January 2005 – December 2005
Advisor: Dr. David Russell
Role: MALDI-ToF Mass Spectrometry Technician
Laboratory for Biological Mass Spectroscopy, Texas A&M University, College Station, TX

TEACHING EXPERIENCE

Lecturer from Summer 2022 – present:
Algebra-based Physics I (PHYS 201): 6 sections total
Algebra-based Physics II (PHYS 202): 5 sections total
Calculus-based Physics I (Lecture and Recitation, PHYS 206): 11 sections total
Calculus-based Physics I – Honors (Lecture and Recitation, PHYS 206): 4 sections total
Calculus-based Physics II (Lecture and Recitation, PHYS 207): 15 sections total

Instructional Assistant Professor from Fall 2017 – Spring 2022:
General Chemistry for Engineers (Lecture, CHEM 107): 11 sections total*
General Chemistry for Engineers (Lab, CHEM 117): 15 sections total*
General Chemistry II (Lab, CHEM112/120 Lab only): 2 sections total
Calculus-based Physics I (Lecture, Lab and Recitation, PHYS 218): 2 sections total
Calculus-based Physics I (Lecture and Recitation, PHYS 206): 7 sections total*
Calculus-based Physics II (Lecture and Recitation, PHYS 207): 14 sections total*
Physics I Lab (ENGR/PHYS 216): 4 sections total
Physics II Lab (ENGR/PHYS 217): 2 sections total

Algebra-based Physics II (PHYS 202): 1 section total
College of Science, Higher Education Center at McAllen (HECM), Texas A&M University
All of the above courses were taught face-to-face for HECM campus
* includes courses taught in online-only format remotely for main campus in College Station

Temporary Full-time Physics Faculty for Spring 2016 through Spring 2017:
College Physics I Lecture and Lab – Phys 1301 & 1101 (4 sections total)
University Physics I Lecture and Lab– Phys 2325 & 2125 (6 sections total)
University Physics II Lecture and Lab – Phys 2326 & 2126 (3 sections total)
Central Campus Department of Physical Science, San Jacinto College, Pasadena, Tx

Adjunct Chemistry Faculty for Introductory Chemistry Lecture and Lab – Chem 1311 & 1111: Fall 2015 (2 sections)
Central Campus Department of Physical Science, San Jacinto College, Pasadena, Tx

Teaching Assistant for Nuclear Chemistry - Chem 464: Fall 2006, Fall 2008, Fall 2009
Chemistry Dept., Texas A&M University, College Station, TX

Teaching Assistant for General Chemistry for Engineering Students - Chem 107: Fall 2007, Spring 2008
Chemistry Dept., Texas A&M University, College Station, TX

COLLEGE SERVICE

STEM representative to Student Continuum Taskforce, San Jacinto College District: Fall 2016-Spring 2017
Member of Instructional Design Workgroup within Student Continuum Taskforce at San Jacinto College District: Spring 2017
Faculty Representative to Emergency Management Team, Higher Education Center at McAllen: Fall 2018 - Present
Member of committee for Peer Review/Faculty Observation, Higher Education Center at McAllen: Fall 2019-Spring 2020
Member of hiring committee for seven different faculty/staff positions, Higher Education Center at McAllen: various
Member Honors Committee, Higher Education Center at McAllen: Summer 2021 – Spring 2022
Member of Office Space Committee, Higher Education Center at McAllen: March 2022 – May 2022
Course co-coordinator: Calculus-based Physics II – University Physics (Phys 207 UP) Fall 2022 - present

UNDERGRADUATE PROGRAMMING

Faculty Perspective talk at New Student Conferences, Higher Education Center at McAllen: Summers of 2018-2021
Welcome Week student events planning, Higher Education Center at McAllen: week before Fall classes, 2018-2021

UNDERGRADUATE RESEARCH

Texas Research Expanding Nuclear Diversity (TREND), Higher Education Center at McAllen (HECM): Co-PI, January 2022 – Present

Responsibilities with TREND allows for the direct mentorship of one undergraduate student at HECM performing research 15 hrs/wk on a Nuclear Chemistry project. Additionally, I helped organize a 10-week research opportunity for TREND students at the Cyclotron Institute at Texas A&M University during Summer 2022 and also coordinated their bi-weekly Zoom meetings as a cohort. Named Executive Director April 2023.

Horizon-broadening Isotope Production Pipeline Opportunities (HIPPO) collaboration, Higher Education Center at McAllen (HECM): affiliated member, January 2022 – Present

Responsibilities with HIPPO primarily consist of recruitment of undergraduate researchers to work during the summer at a HIPPO campus on isotope production.

HONORS, AWARDS AND CREDINTIALS

Teaching Excellence Award: Spring 2008, *First Year Program in Chemistry, Texas A&M University Chemistry Dept.*
Martin Corera Travel Award: Summer/Fall 2011, *Texas A&M University Chemistry Dept.*
Member of Phi Lambda Upsilon Honorary Chemical Society, Beta Beta Chapter, April 2009-August 2015, *Texas A&M University Chemistry Dept.*
Robert A. Welch Fellowship, *Texas A&M University*

Recipient of Individual Award for Presidents Transformational Teaching Grant (PTTG) program, January 2021 – December 2022, *Texas A&M University*

Certificate in Effective Instruction
Association of College and University Educators, 2021
This certificate signifies my completion of a 25-module course in effective teaching practices requiring the implementation of evidence-based instructional approaches. The credential is co-issued by the American Council on Education and distinguishes faculty for their commitment to educational excellence and student success.

Certificate in Inclusive Teaching for Equitable Learning
Association of College and University Educators, 2021
This certificate signifies my completion of a 8-module course in inclusive and equitable teaching practices requiring the implementation of evidence-based instructional approaches. The credential is co-issued by the American Council on Education and distinguishes faculty for their commitment to educational excellence and student success.

PROFESSIONAL SOCIETY MEMBERSHIPS

American Chemical Society, Member 2007-present
American Physical Society, Member 2007-present

PRESENTATIONS

Oral

A Quadrupole Momentum Thermometer for Heavy-Ion Reactions. L. W. May, A. Bonasera, S. Wuenschel, S. J. Yennello. 3rd Joint

Meeting of the APS Division of Nuclear Physics and the Physical Society of Japan, Waikoloa, Hawaii: 2009

Distance Calculation Methods Used in Linearization for Particle Identification in Multi-detector Arrays. L. W. May, Z. Kohley, S. Wuenschel, A. B. McIntosh, G. A. Souliotis and S. J. Yennello. 22nd Conference on Application of Accelerators in Research and Industry, Fort Worth, Texas: 2012

Equilibration in Heavy-ion Nuclear Collisions. L. W. May, Z. Kohley, G. Bonasera, P. Cammarata, L. Galvan, K. Hagel, L. Heilborn, J. Mabiala, P. Marini, A. B. McIntosh, G. A. Souliotis, J. Vu, S. Wuenschel, M. D. Youngs, A. Zarrella and S. J. Yennello. Fall 2014 Joint Meeting of the Texas Section of the APS, Texas Section of the AAPT and Zone 13 of the Society of Physics Students, College Station, Texas: 2014

Equilibration in Heavy-ion Nuclear Collisions. L. W. May, Z. Kohley, G. Bonasera, P. Cammarata, L. Galvan, K. Hagel, L. Heilborn, J. Mabiala, P. Marini, A. B. McIntosh, G. A. Souliotis, J. Vu, S. Wuenschel, M. D. Youngs, A. Zarrella and S. J. Yennello. 70th Southwest Regional Meeting of the American Chemical Society, Fort Worth, Texas: 2014

Texas Researchers Expanding Nuclear Diversity. L. W. May, J. A. Lopez, J. Mabiala, L. McIntosh, J. A. Munoz, T. D. Sauncy and S. J. Yennello. 2022 Fall Meeting of the Division of Nuclear Physics of the American Physical Society, New Orleans, Louisiana: 2022

Texas Researchers Expanding Nuclear Diversity. L. W. May, J. A. Lopez, J. Mabiala, L. McIntosh, J. A. Munoz, T. D. Sauncy and S. J. Yennello. TSAAPT 2023 Joint Spring Meeting, Commerce, Texas: 2023 (Plenary)

Poster

Calculations of N/Z Equilibration in the Quasi-Projectile of Ar,Ca + Sn reactions. L. W. May, A. Keksis, S. J. Yennello and SJY Group. Gordon Research Conference in Nuclear Chemistry, Colby-Sawyer College, New London, New Hampshire (2008).

Transport Calculations of N/Z Equilibration and Nucleon Transfer in Zn and Ni Reactions. L. W. May and SJY Group. Gordon Research Seminar in Nuclear Chemistry, Colby-Sawyer College, New London, New Hampshire (2011).

Transport Calculations of N/Z Equilibration and Nucleon Transfer in Zn and Ni Reactions. L. W. May and SJY Group. The Second International Symposium on Nuclear Symmetry Energy, Smith College, North Hampton, Massachusetts (2011).

Equation of State effects on Nucleon Transport. L. W. May and SJY Group. 11th International Conference on Nucleus-Nucleus Collisions, San Antonio, Texas (2012).

PUBLICATIONS

Conference Proceedings (principal author)

Distance Calculation Methods Used in Linearization for Particle Identification in Multi-detector Arrays. L. W. May, Z. Kohley, S. Wuenschel, A. B. McIntosh, G.A. Souliotis, S. J. Yennello. AIP Conf. Proc. 1525, 616 (2013).

Equation of State Effects on Nucleon Transport. L. W. May, P. Cammarata, L. Heilborn, Z. Kohley, J. Mabiala, A. McIntosh, A. Raphelt, A. Zarrella, and S. J. Yennello. Journal of Phys.: Conference Series 420, 012112 (2013).

Conference Proceedings (contributing author)

The ASY-EOS experiment at GSI: investigating symmetry energy at supra-saturation densities, P. Russotto, et. al. EPJ Web of Conferences 66, 03074 (2014).

Asymmetry Dependence of the Nuclear Caloric Curve, A.B. McIntosh, A. Bonasera, P. Cammarata, K. Hagel, L. Heilborn, Z. Kohley, J. Mabiala, L.W. May, P. Marini, A. Raphelt, G.A. Souliotis, S. Wuenschel, A. Zarrella, S.J. Yennello, J. Phys.: Conf. Ser. 420 012085 (2013).

Experimental signals of a nuclear liquid-gas phase Transition, J. Mabiala, A. Bonasera H. Zheng, A. B. McIntosh, Z. Kohley, P. Cammarata, K. Hagel, L. Heilborn, L. W. May, A. Raphelt, G. A. Souliotis, A. Zarrella, S. J. Yennello, J. Phys.: Conf. Ser. 420 012110 (2013).

Temperature Measurements in Low Excitation Energy Reactions to Probe a Possible Phase Transition, A. Raphelt, G.A. Souliotis, P.J. Cammarata, L. Heilborn, J. Mabiala, L. W. May, B. C. Stein, A. Zarrella,, S. J. Yennello. J. Phys.: Conf. Ser. 420 012109 (2013).

Asymmetry Energy Effects on Reaction Break-up Mechanisms Near the Fermi Energy, P. J. Cammarata, A. B. McIntosh, M. Colonna, L. W. May, L. Heilborn, J. Mabiala, A. Raphelt, A. Zarrella and S. J. Yennello, J. Phys.: Conf. Ser. 420 012113 (2013).

Particle-particle correlation functions as an experimental probe of the nuclear asymmetry energy, L. Heilborn, H. Zheng, A. Bonasera, A.B. McIntosh, P.J. Cammarata, J. Mabiala, L.W. May, A. Raphelt,

G.A. Souliotis, A. Zarrella, S.J. Yennello, J. Phys.: Conf. Ser. 420 012111 (2013).

Source-Specific Neutron Detection Efficiencies of the TAMU Neutron Ball, A. Zarrella, P. Marini, A. McIntosh, P. Cammarata, L. Heilborn, J. Mabiala, L. W. May, A. Raphelt, S. J. Yennello, J. Phys.: Conf. Ser. 420 012164 (2013).

The ASY-EOS experiment at GSI: investigating the symmetry energy at supra-saturation densities, P Russotto et. al. J. Phys.: Conf. Ser. 420 012092 (2013).

Isotopic yields as a probe of the symmetry energy: dealing with the secondary decay effects, P. Marini et al, J. Phys.: Conf. Ser. 420 012096 (2013).

Intermediate Mass Fragment Flow as a Probe to the Nuclear Equation of State. Z. Kohley, L. W. May, S. Wuenschel, A. Bonasera, K. Hagel, R. Tripathi, R. Wada, G. A. Souliotis, D. V. Shetty, S. Galanopoulos, M. Mehlman, W. B. Smith, S. N. Soisson, B. C. Stein, S. J. Yennello. J. Phys.: Conf. Ser. 312 082030 (2011).

Investigation of critical behavior from nuclear fragment yield ratios. R. Tripathi, A. Bonasera, S. Wuenschel, L. W. May, Z. Kohley, G. A. Souliotis, S. Galanopoulos, K. Hagel, D. V. Shetty, K. Huseman, S. N. Soisson, B. C. Stein, S. J. Yennello. J. Phys.: Conf. Ser. 312 082043 (2011).

Investigating the symmetry energy of nuclear equation of state with heavy-ion reactions. S. J. Yennello, Z. Kohley, L. W. May, S. Wuenschel, A. Bonasera, R. Tripathi, G. A. Souliotis. J. Phys.: Conf. Ser. 322 012013 (2011).

ASY-EOS experiment at GSI, P. Russotto et al, Proceedings of the IWM 2011 International Workshop on Multifragmentation and Related Topics, Caen, France (2011).

Constraining the symmetry energy from fragment yields, P. Marini et al, Proceedings of the IWM 2011 International Workshop on Multifragmentation and Related Topics, Caen, France (2011).

Isoscaling, SMM and the symmetry energy: connecting the dots. P. Marini, A. Botvina, A. Bonasera, Z. Kohley, L. W. May, R. Tripathi, S. J. Yennello. AIP Conf. Proc. 1304 382 (2010).

Isoscaling of fragments from reconstructed quasiprojectiles. S. J. Yennello, S. Galanopolos, S. Wuenschel, G Souliotis, R. Dienhoffer, L. May, T. Fagan and J. Erchinger, Proceedings of the IWM 2009 International Workshop on Multifragmentation and Related Topics, Catania, Italy (2009).

Particle Identification in the NIMROD-ISiS Detector Array. S. Wuenschel, K. Hagel, L. W. May, R. Wada, S. J. Yennello. AIP Conf. Proc. 1099 816 (2009).

Recent Updates to the FAUST array. B.C. Stein, S. N. Soisson, L. W. May, R. Q. Dienhoffer, G. A. Souliotis, D. V. Shetty, A. L. Keksis, S. Wuenschel, Z. Kohley, S. J. Yennello. AIP Conf. Proc. 1099 700 (2009).

Refereed Journals

Apparent temperatures of neutron-poor and neutron-rich compound nuclei, A. B. McIntosh, K. Hagel, L. A. McIntosh, R. Wada, J. Gauthier, P. J. Cammarata, A. Keeler, A. Abbott, A. Hannaman, B. Harvey, A. Jedele, Y. W. Lui, L. W. May, M. Sorensen, M. Youngs, A. Zarrella, and S. J. Yennello, Phys. Rev. C 107, 024612 (2023).

Performance of position-sensitive resistive silicon detectors in the Forward Array Using Silicon Technology (FAUST), L.A. McIntosh, A. B. McIntosh, K. Hagel, M.D. Youngs, L.A. Bakhtiari, C.B. Lawrence, P. Cammarata, A. Jedele, L.W. May, A. Zarrella, and S.J. Yennello, Nucl. Inst. Meth. A, 985, 164642 (2021).

Neutron-proton equilibration in 35 MeV/u collisions of Zn-64,Zn-70+Zn-64,Zn-70 and Zn-64, Ni-64+Zn-64, Ni-64 quantified using triplicate probes, L.W. May, A. Wakhle, A.B. McIntosh, Z. Kohley, S. Behling, A. Bonasera, G. Bonasera, P. Cammarata, K. Hagel, L. Heilborn, A. Jedele, A. Raphelt, A. R. Manso, G. Souliotis, R. Tripathi, M.D. Youngs, A. Zarrella, and S.J. Yennello, Phys. Rev. C, 98, 044602 (2018).

Observation of Different Isoscaling Behavior Between Emitted Fragments and Residues, M. Youngs, A.B. McIntosh, K. Hagel, L. Heilborn, M. Huang, A. Jedele, Z. Kohley, L.W. May, E. McCleskey, A. Zarrella, and S.J. Yennello, Nuclear Physics A, 962, 61-72 (2017).

Detailed characterization of neutron-proton equilibration in dynamically deformed nuclear systems, A. Rodriguez Manso, A. B. McIntosh, A. Jedele, K. Hagel, L. Heilborn, Z. Kohley, L. W. May, A. Zarrella, and S. J. Yennello, Phys. Rev. C, 95, 044604 (2017).

Characterizing Neutron-Proton Equilibration in Nuclear Reactions with Subzeptosecond Resolution, A. Jedele, A.B. McIntosh, K. Hagel, M. Huang, L. Heilborn, Z. Kohley, L.W. May, E. McCleskey, M.

Youngs, A. Zarrella and S..J. Yennello, Phys. Rev. Lett., 118, 062501 (2017).

Results of the ASY-EOS experiment at GSI: The symmetry energy at suprasaturation density, P. Russotto, et al. Phys. Rev. C, 94, 034608 (2016).

Studying heavy-ion collisions with coverage near zero degrees using FAUST-QTS. P. Cammarata, M.B. Chapman, A.B. McIntosh, G. Souliotis, L. Bakhtiari, S. Behling, G. Bonasera, L. Heilborn, J. Mabiala, L.W. May, A. Raphelt, M.D. Youngs, A. Zarrella, S.J. Yennello. Nucl. Inst. Meth. A 792, 61 (2015).

Novel technique to extraxt experimental symmetry free energy information for nuclear matter. J. Mabiala, H. Zheng, A. Bonasera, P. Cammarata, K. Hagel, L. Heilborn, Z. Kohley, L.W. May, A.B. McIntosh, M.D. Youngs, A. Zarrella, S.J. Yennello. Phys. Rev. C 92, 024605 (2015).

Coulomb corrections to experimental temperatures and densities in Fermi-energy heavy ion collisions, J. Mabiala, H. Zheng, A. Bonasera, P. Cammarata, K. Hagel, L. Heilborn, Z. Kohley, L.W. May, A.B. McIntosh, M.D. Youngs, A. Zarrella, S.J. Yennello, Phys. Rev. C, 90, 027602 (2014).

Sifting through the remnants of heavy-ion collisions for observables sensitive to the nuclear equation of state. P. Cammarata, M. Colonna, A. Bonasera, A.B. McIntosh, Z. Kohley, L.W. May, M.B. Chapman, L.A. Heilborn, J. Mabiala, A. Raphelt, Z. Zarrella, S.J. Yennello. Nucl. Inst. Meth. A 716, 1 (2014).

How Much Cooler Would It Be With Some More Neutrons? Exploring the Asymmetry Dependence of the Nuclear Caloric Curve and the Liquid-Gas Phase Transition. A.B. McIntosh, J. Mabiala, A. Bonasera, P Cammarata, K. Hagel, L. Heilborn, Z. Kohley, L.W. May, P. Marini, A. Raphelt, G.A. Souliotis, S. Wuenschel, A. Zarrella, H. Zheng, S.J. Yennello. Eur. Phys. J. A 50, 35 (2014).

Quantum Suppression of Fluctuations and Temperatures of Reconstructed A~30 Quasi-Projectiles. B.C. Stein, H. Zheng, A. Bonasera, G.A. Souliotis, P. Cammarata, L. Heilborn, A.L. Keksis, Z. Kohley, J. Mabiala, P. Marini, L.W. May, A.B. McIntosh, C. Richers, D.V. Shetty, S.N. Soisson, R. Tripathi, S. Wuenschel, S.J. Yennello. J. Phys. G 41, 025108 (2014).

Critical Scaling of Two-Component Systems from Quantum Fluctuations. J. Mabiala, A. Bonasera, H. Zheng, A.B. McIntosh, Z. Kohley, P. Cammarata, K. Hagel, L. Heilborn, L.W. May, A.

Raphelt, G.A. Souliotis, A. Zarrella, S.J. Yennello. Int. J. Mod. Phys. E 22, 1350090 (2013).

Using Light Charged Particles to Probe the Asymmetry Dependence of the Nuclear Caloric Curve. A.B. McIntosh, A. Bonasera, P Cammarata, K. Hagel, L. Heilborn, Z. Kohley, J. Mabiala, L.W. May, P. Marini, A. Raphelt, G.A. Souliotis, S. Wuenschel, A. Zarrella, S.J. Yennello. Phys. Rev. C 87, 034617 (2013).

Investigation of the Nuclear Phase Transition Using the Landau Free-Energy Approach. J. Mabiala, A. Bonasera, H. Zheng, A.B. McIntosh, L.W. May, P. Cammarata, Z. Kohley, K. Hagel, L. Heilborn, A. Raphelt, G.A. Souliotis, A. Zarrella, S.J. Yennello. Phys. Rev. C 87, 017603 (2013).

Systematic Study of the Symmetry Energy within the Approach of the Statistical Multifragmentation Model. P. Marini, A. Bonasera, G.A. Souliotis, P. Cammarata, S. Wuenschel, R. Tripathi, Z. Kohley, K. Hagel, L. Heilborn, J. Mabiala, L.W. May, A.B. McIntosh, S.J. Yennello. Phys. Rev. C 87 024603 (2013).

Asymmetry Dependence of the Nuclear Caloric Curve. A.B. McIntosh, A. Bonasera, P Cammarata, K. Hagel, L. Heilborn, Z. Kohley, J. Mabiala, L.W. May, P. Marini, A. Raphelt, G.A. Souliotis, S. Wuenschel, A. Zarrella, S.J. Yennello. Phys. Lett. B 719, 337 (2013).

Experimental Determination of the Quasi-Projectile Mass with Measured Neutrons. P. Marini, A. Zarrella, A. Bonasera, G. Bonasera, P. Cammarata, L. Heilborn, Z. Kohley, J. Mabiala, L.W. May, A.B. McIntosh, A. Raphelt, G.A. Souliotis, S.J. Yennello. Nucl. Inst. Meth A 77, 80 (2013).

Correlations with Projectile-like Fragments and Emission Order of Light Charged Particles. Z. Kohley, A. Bonasera, S. Galanopoulos, K. Hagel, L.W. May, A.B. McIntosh, B.C. Stein, G.A. Souliotis, R. Tripathi, S. Wuenschel, S.J. Yennello. Phys. Rev. C 86, 044605 (2012).

Multifragmentation of reconstructed quasi-projectiles in the mass region A similar to 30. S.N. Soisson, A. Botvina, G.A. Souliotis, B.C. Stein, A.L. Keksis, Z. Kohley, L.W. May, D.V. Shetty, S. Wuenschel, and S.J. Yennello. J. Phys. G 39, 114105 (2012).

Sensitivity of intermediate mass fragment flows to the symmetry energy. Z. Kohley, M. Colonna, A. Bonasera, L. W. May, S. Wuenschel, M. Di Toro, S. Galanopoulos, K. Hagel, M. Mehlman, W. B. Smith, G.A. Souliotis, S. N. Soisson, B. C. Stein, R. Tripathi, S. J. Yennello, M. Zielinska-Pfabe. Phys. Rev. C 85, 064605 (2012).

Constraining the Symmetry Term in the Nuclear Equation of State at Sub-Saturation Densities and Finite Temperatures. P. Marini, A. Bonasera, A. McIntosh, R. Triapthi, K. Hagel, Z. Kohley, LW. May, G.A. Souliotis, S. Wuenschel, and S.J. Yennello. Phys. Rev. C 85, 034617 (2012).

Role of Quasiprojectile Isospin Asymmetry in Nuclear Fragmentation. R. Tripathi, A. Bonasera, S. Wuenschel, L. W. May, Z. Kohley, P. Marini, A. McIntosh, G. A. Souliotis, S. Galanopoulos, K. Hagel, D. V. Shetty, K. Huseman, S. N. Soisson, B. C. Stein, and S. J. Yennello. Inter. Jour. Mod. Phys. E **21,** 1250019 (2012).

Approaching neutron-rich nuclei towards the r-process paith in deep-inelastic transfer collisions in the energy range of 15 MeV/nucleon. G.A. Souliotis, M. Veselsky, S. Galanopoulos, M. Jandel, Z. Kohley, L.W. May, D.V. Shetty, B.C. Stein, and S.J. Yennello. Phys. Rev. C **84,** 064607 (2011).

Analysis of fragment yield ratios in the nuclear phase transition. R. Tripathi, A. Bonasera, S. Wuenschel, L.W. May, Z. Kohley, G.A. Souliotis, S. Galanopoulos, K. Hagel, D.V. Shetty, K. Huseman, S.N. Soisson, B.C. Stein, and S.J. Yennello. Phys. Rev. C **83,** 054609 (2011).

Transverse Collective Flow and Mid-Rapidity Emission of Isotopically Identified Light Charged Particles. Z. Kohley, L.W. May, S. Wuenschel, M. Colonna, M. Di Toro, M. Zielinska-Pfabe, K. Hagel, R. Tripathi, A. Bonasera, G.A. Souliotis, D.V. Shetty, S. Galanopoulos, M. Mehlman, W. B. Smith, S.N. Soisson, B.C. Stein, and S.J. Yennello. Phys. Rev. C **83,** 044601 (2011).

Investigation of Transverse Collective Flow of Intermediate Mass Fragments. Z. Kohley, L.W. May, S. Wuenschel, A. Bonasera, K. Hagel, R. Tripathi, R. Wada, G.A. Souliotis, D.V. Shetty, S. Galanopoulos, M. Mehlman, W. B. Smith, S.N. Soisson, B.C. Stein, and S.J. Yennello. Phys. Rev. C **82,** 064601 (2010).

Measuring the Temperature of Hot Nuclear Fragments. S. Wuenschel, A. Bonasera, L.W. May, G.A. Souliotis, R. Tripathi, S. Galanopoulos, Z. Kohley, K. Hagel, D.V. Shetty, K. Huseman, S.N. Soisson, B.C. Stein, and S.J. Yennello. Nucl. Phys. **A843,** 1, (2010).

Experimental Studies of N/Z Equilibration in Peripheral Collisions Using Fragment Yield Ratios. A.L. Keksis, L.W. May, G.A. Souliotis, M. Veselsky, S. Galanopoulos, Z. Kohley, D.V. Shetty, S.N. Soisson, B.C. Stein, R. Tripathi, S. Wuenschel, S.J. Yennello, and B.A. Li. Phys. Rev. C **81,** 054602 (2010).

Isoscaling of Mass A~40 Reconstructed Quasiprojectiles from Collisions in the Fermi Energy Regime. S. Galanopoulos, G.A.

Souliotis, A.L. Keksis, M. Veselsky, Z. Kohley, L.W. May, D.V. Shetty, S.N. Soisson, B.C. Stein, S. Wuenschel, S.J. Yennello. Nucl. Phys. **A837,** 145, (2010).

A Dual-Axis Dual-Lateral Position Sensitive detector for charged particle detection. S.N. Soisson, B.C. stein, L.W. May, R.Q. Dienhoffer, M. Jandel, G.A. Souliotis, D.V. Shetty, S. Galanopoulos, A. L. Keksis, S. Wuenschel, Z. Kohley, S.J. Yennello. Nucl. Inst. Meth. A. **613,** 240, (2010).

Isoscaling of fragments with Z = 1–17 from reconstructed quasiprojectiles. S. Wuenschel, R. Dienhoffer, G. A. Souliotis, S. Galanopoulos, Z. Kohley, K. Hagel, D. V. Shetty, K. Huseman, L. W. May, S. N. Soisson, B. C. Stein, A. L. Caraley, and S. J. Yennello. Phys. Rev. C. **79,** 061602(R) (2009).

NIMROD–ISiS, a versatile tool for studying the isotopic degree of freedom in heavy ion collisions. S. Wuenschel, K. Hagel, R. Wada, J.B. Natowitz, S.J. Yennello, Z. Kohley, C. Bottosso, L.W. May, W.B. Smith, D.V. Shetty, B.C. Stein, S.N. Soisson and G. Prete. Nucl. Instrum. Methods **A604,** 578 (2009).