

TALKS PRESENTED
April 1, 2013 – March 31, 2014

*Honoring the achievements of Joseph B. Natowitz, **R.E. Tribble**, International Workshop on Dynamics and Thermodynamics, College Station, Texas (August 2013).*

*Asymptotic normalization coefficients as an indirect technique for nuclear astrophysics (and more), **R.E. Tribble**, **Invited Presentation**, Seventh European Summer School for Experimental Nuclear Astrophysics, Catania, Italy (September 2013).*

*Radioactive ion beams for nuclear science at Texas A&M University, **R.E. Tribble**, **Invited Talk**, First International African Symposium on Exotic Nuclei, Cape Town, South Africa (December 2013).*

*Pandemonium: early perspectives on delayed-neutron decay, **J.C. Hardy**, **Invited Talk**, North American Workshop on Beta-Delayed Neutron Emission, Oak Ridge, Tennessee (May 2013).*

*Precise test of internal-conversion theory: transitions measured in five nuclei spanning $50 \leq Z \leq 78$, **J.C. Hardy**, **Invited Talk**, 19th International Conference on Radionuclide Metrology and its Applications, Antwerp, Belgium (June 2013).*

*Ft values measured to $\pm 0.1\%$ for superallowed beta transitions: metrology at sub-second time scales, **J.C. Hardy**, **Invited Talk**, 19th International Conference on Radionuclide Metrology and its Applications, Antwerp, Belgium (June 2013).*

*Precise measurement of branching ratios in the β decay of ^{38}Ca , **H.I. Park**, J.C. Hardy, V.E. Jacob, M. Bencomo, L. Chen, V. Horvat, N. Nica, E. Simmons, B.T. Roeder and R.E. Tribble, APS Meeting, Denver, Colorado (April 2013).*

*Another interesting case of ICC measurement: the 88-keV M4 transition in ^{127}Te , **N. Nica**, Annual Meeting of the U.S. Nuclear Data Program, Brookhaven National Laboratory, Upton, New York (November 2013).*

*Study of giant monopole resonance: present and future, **Y.-W. Lui**, **Colloquium**, College of Physics, Qingdao University, Qingdao, China (June 2013).*

*What should be expected from the resonance scattering experiments in the nearest future? **V.Z. Goldberg**, **Invited Seminar**, GSI Helmholtz Centre for Heavy Ion Research, Darmstadt, Germany (May 2013).*

*Experiments to test current ab initio calculations, **V.Z. Goldberg**, **Invited Talk**, Conference on Nuclear Physics: Presence and Future, Boppard, Germany (June 2013).*

*The progress in the experimental studies of α cluster states, **V.Z. Goldberg**, Lomonosov State University, Moscow, Russia (June 2013).*

*Test of modern theoretical approaches using modern experimental methods, **V.Z. Goldberg**, **Invited Talk**, 33rd Mazurian Lakes Conference on Physics "Frontiers in Nuclear Physics", Piaski, Poland, (September 2013).*

What are the alpha cluster states and how can they be studied ? **V.Z. Goldberg, Invited Lecture**, at 7th European School on Experimental Nuclear Astrophysics, Santa Tecla, Italy (September 2013).

Resonance studies of nuclei beyond nuclear stability and development of theory, **V.Z. Goldberg, Invited Seminar**, Shanghai Jiaotong University, Shanghai, China (March 2014).

Experiments with rare beams for tests of modern nuclear structure calculations, **V.Z. Goldberg, Invited Seminar**, China Atomic Energy Institute, Beijing, China (March 2014).

Clusters in atomic nuclei, **V.Z. Goldberg, Invited Seminar**, China Atomic Energy Institute, China Atomic Energy Institute, Beijing, China (March 2014).

Reaction rates for explosive nuclear synthesis, **A. Spiridon**, 11th Russbach School on Nuclear Astrophysics, Russbach, Austria (March 2014).

Investigation of the nuclear structure of ^{17}O at high excitation energy with five-particle transfer reactions **B. Roeder**, “REUNIÃO DO COMITÊ DE AVALIAÇÃO DE PROJETOS DE EXPERIÊNCIAS PARA O ACELERADOR PELLETRON (CAP)” (“Meeting of the Experiment Evaluation Committee for experiments at the Pelletron Accelerator”) University of São Paulo, São Paulo, Brazil (October 2013).

Probing properties of the weak interaction using trapped atoms and ions, **D. Melconian, Invited Seminar**, University of Notre Dame Nuclear Physics Laboratory, South Bend, Indiana (February 2014).

Precision measurements of β -decay correlation parameters from trapped atoms and ions, **D. Melconian, Invited Seminar**, X Latin American Symposium on Nuclear Physics and Applications, Montevideo, Uruguay (December 2013).

Precision β -decay studies using trapped atoms and ions, **D. Melconian, Invited Seminar**, National Superconducting Laboratory, Michigan State University, East Lansing, Michigan (November 2013).

Fundamentally cool physics with trapped atoms and ions, **D. Melconian, Invited Colloquium**, Texas A&M University, College Station, Texas (October 2013).

Nuclear spin polarization of $^{37,41}\text{K}$ by optical pumping, **B. Fenker**, Texas Section of the APS Meeting, Brownsville, Texas (October 2013).

Report on the measurement of the beta asymmetry parameter, A_β , of ^{37}K , **R.S. Behling**, ISAC Science Forum, TRIUMF, Vancouver, British Columbia (December 2012).

Report on the current status of the TAMUTRAP facility, **P. Shidling**, APS Division of Nuclear Physics meeting, Newport News, Virginia (October 2013).

Gluon polarization and jet production in STAR, **C.A. Gagliardi** (for the STAR Collaboration), XXI Int. Workshop Deep Inelastic Scatt. (DIS 2013), Marseille, France (April 2013).

Inclusive jet production in longitudinally polarized pp collisions at STAR, **Z. Chang** (for the STAR Collaboration), APS Meeting Div. Nucl. Phys., Newport News, Virginia (October 2013).

Gluon polarization and jet production in STAR, **P. Djawotho** (for the STAR Collaboration), 25th Int. Nucl. Phys. Conf. (INPC 2013), Florence, Italy (June 2013). *Transverse single-spin asymmetry in STAR at*

forward rapidity, **M.M. Mondal** (for the STAR Collaboration), 5th Workshop APS GHP (GHP13), Denver, Colorado (April 2013).

Introductory experimental nuclear astrophysics, **G.V. Rogachev**, **Invited Lecture**, 7th European Summer School on Experimental Nuclear Astrophysics, Catania, Italy (September 2013).

Nuclear reactions, **G.V. Rogachev**, **Invited Lecture**, Exotic Beams Summer School (EBSS2013), Lawrence Berkeley National Laboratory, Berkeley, California (July 2013).

Clusterization and the symmetry energy in low density nuclear matter, **J.B. Natowitz**, **Invited Talk**, 3rd International Symposium on Nuclear Symmetry Energy, NSCL/FRIB, East Lansing, Michigan (July 2013).

Why nuclear science was and is still so interesting to me, **J.B. Natowitz**, **Invited Talk**, International Workshop on Nuclear Dynamics and Thermodynamics, Texas A&M University, College Station, Texas (August 2013).

Probing the nuclear equation of state at low density using near Fermi-energy heavy ion collisions, **J.B. Natowitz**, **Invited Talk**, The 27th Texas Symposium on Relativistic Astrophysics, Dallas, Texas (December 2013).

Using light charged particles from heavy-ion collisions to study the asymmetry dependence of the nuclear caloric curve, **S.J. Yennello**, **Invited Talk**, Gordon Research Conference in Nuclear Chemistry, New London, New Hampshire (June 2013).

Asymmetry dependence of the nuclear caloric curve, **S.J. Yennello**, **Invited Talk**, International Nuclear Physics Conference, Florence, Italy (June 2013).

Using heavy-ion collisions to study the asymmetry dependence of the nuclear caloric curve, **S.J. Yennello**, **Invited Talk**, American Chemical Society Meeting, Indianapolis, Indiana (August 2013).

How much cooler would it be with some more neutrons? The influence of neutron-proton asymmetry on nuclear temperature, **A.B. McIntosh**, XXVII Texas Symposium on Relativistic Astrophysics, Dallas, Texas (December 2013).

Experimental results on critical temperatures and densities from Quantum Fluctuations, **J. Mabilia**, International Workshop on Nuclear Dynamics and Thermodynamics (IWNDDT), Texas A&M University, College Station, Texas (August, 2013).

Critical scaling of excited nuclear systems from quantum fluctuations, **J. Mabilia**, APS Meeting, Denver, Colorado (April 2013).

Critical behavior of nuclear systems from quantum fluctuations, **J. Mabilia**, **Invited Talk**, 3rd International Symposium on Nuclear Symmetry Energy (NuSYM13), East Lansing, Michigan (July 2013).

Asymmetry dependence of the nuclear caloric curve, **A.B. McIntosh**, **Invited Talk**, International Symposium on Nuclear Symmetry Energy (NuSYM13), East Lansing, Michigan (July 2013).

Studies of N/Z equilibration via heavy-residue isoscaling, **G. Souliotis**, **Invited Talk**, International Workshop on Nuclear Dynamics and Thermodynamics (IWNDDT), Texas A&M University, College

Station, Texas (August, 2013).

The influence of neutron-proton asymmetry on nuclear temperature, **A.B. McIntosh**, **Invited Talk**, International Workshop on Nuclear Dynamics and Thermodynamics (IWNDT), College Station, Texas (August 2013).

Current trends in nuclear reactions, **A.B. McIntosh**, **Invited Talk**, Gordon Research Conference in Nuclear Chemistry, New London, New Hampshire (June 2013).

Symmetry energy effects on reaction break-up mechanisms near the Fermi energy using Xe,Sn+Ni systems at 15A MeV, **P. Cammarata**, Gordon Research Conference in Nuclear Chemistry, New London, New Hampshire (June 2013).

Searching for observables sensitive to the nuclear equation of state: looking for the needle in the haystack using heavy-ion collisions, **P. Cammarata**, Southwest Regional ACS Meeting, Waco, Texas (November 2013).

In-medium effects and low density nuclear matter, **K. Hagel**, International Nuclear Physics Conference (INPC), Florence, Italy (June, 2013).

Experimental determination of Mott points in nuclear matter, **K. Hagel**, International Workshop on Nuclear Dynamics and Thermodynamics (IWNDT), Texas A&M University, College Station, Texas (August, 2013).

Clusterization in nuclear matter, **K. Hagel**, NUFRA, Kemer (Antalya), Turkey (October 2013).

Clustering and low density nuclear matter, **K. Hagel**, IX Workshop on Particle Correlations and Femtoscopy (WPCF2013), Acireale, Italy (November 2013).

Measurement of the plasma astrophysical S factor for the $^3\text{He}(d, p)^4\text{He}$ reaction in exploding molecular clusters, **M. Barbui**, **Invited Seminar**, Oak Ridge National Laboratory, Oak Ridge, Tennessee (October 2013).

Laser applications to nuclear astrophysics, **M. Barbui**, **Invited Seminar**, 7th European Summer School on Experimental Nuclear Astrophysics, Santa Tecla (CT), Sicily, Italy (September 2013).

Exploring the alpha cluster structure of nuclei using the thick target inverse kinematics technique for multiple alpha decays, **M. Barbui**, International Workshop on Nuclear Dynamics and Thermodynamics (IWNDT), Texas A&M University, College Station, Texas (August, 2013).

Exploring the alpha cluster structure of nuclei using the thick target inverse kinematics technique for multiple alpha decays, **M. Barbui**, K. Hagel, V.Z. Goldberg, J.B. Natowitz, H. Zheng, G. Giuliani, G.G. Rapisarda, S. Wuenschel and X. Liu, International Nuclear Physics Conference (INPC), Florence, Italy (June 2013).

Deep inelastic multi-nucleon transfer for creation of super- and hyper-heavy elements: a survey experiment, **S. Wuenschel**, J.B. Natowitz, K. Hagel, M. Barbui, G. Giuliani, E.J. Kim, N. Blando, H. Zheng, S. Kowalski, K. Schmidt, Z. Majka, Z. Sosin, and A. Wieloch, The Glenn T. Seaborg Award for Nuclear Chemistry Symposium, ACS National Meeting, Dallas, Texas (March 2014).

*Survival of shell-stabilized, spherical nuclei and prospects for discovery of the next new element, **Charles M. Folden III, Invited Talk**, 247th American Chemical Society National Meeting, Dallas, Texas (March 2014).*

*Heavy elements research at Texas A&M University, **Charles M. Folden III, Invited Talk**, American Chemical Society Western Regional Meeting, Santa Clara, California (October 2013).*

*Offline development of new chemical systems for the future study of Rf chemistry, **Marisa C. Alfonso**, 246th American Chemical Society National Meeting, Indianapolis, Indiana (September 10, 2013).*

*Excitation functions of ⁴⁵Sc induced reactions: towards superheavy elements synthesis, **Tyler A. Werke**, 246th American Chemical Society National Meeting, Indianapolis, Indiana (September 2013).*

*Survival of shell-stabilized (superheavy) spherical nuclei using projectiles with $Z > 20$, **Charles M. Folden III**, 246th American Chemical Society National Meeting, Indianapolis, Indiana (September 2013).*

*Influence of projectiles with $Z > 20$ on synthesis of heavy evaporation residues near ²⁰⁸Pb, **Dmitriy A. Mayorov**, 246th American Chemical Society National Meeting, Indianapolis, Indiana (September 2013).*

*Heavy element research at Texas A&M University, **Charles M. Folden III, Invited Talk**, FRIB Community Meeting, East Lansing, Michigan (August 2013).*

*Prospects for discovery of the next new element in complete fusion reactions, **Charles M. Folden III**, International Workshop on Nuclear Dynamics and Thermodynamics, College Station, Texas (August 2013).*

*Influence of projectiles with $Z > 20$ on synthesis of heavy evaporation residues, **Dmitriy A. Mayorov**, International Workshop on Nuclear Dynamics and Thermodynamics, College Station, Texas (August 2013).*

*Excitation functions of ⁴⁵Sc-induced reactions: towards superheavy elements synthesis, **Tyler A. Werke**, International Workshop on Nuclear Dynamics and Thermodynamics, College Station, Texas (August 2013).*

*Experimental and computational assessment of unique trace elements and isotopes ratios in plutonium from depleted uranium irradiated in fast reactor blankets, **Charles M. Folden III**, with Sunil S. Chirayath, DNDO ARI Grantees Program Review, Leesburg, Virginia (August 2013).*

*Effects of odd-Z projectiles on fusion-evaporation cross sections, **Tyler A. Werke**, American Physical Society April Meeting, Denver, Colorado (April 2013).*

*Production of nuclides near the $N = 126$ shell using projectiles with $Z > 20$, **Charles M. Folden III**, American Physical Society April Meeting, Denver, Colorado (April 2013).*

*Study of B-meson reconstruction in STAR, **M. Cervantes, Invited Talk**, Muon Telescope Meeting Rice University, Houston, Texas (November 2013).*

*Recent results on event-by-event fluctuations from the RHIC beam-energy scan program at RHIC, **Nihar Sahoo, Invited Talk**, Winter Workshop on Nuclear Dynamics, Galveston, Texas (April 2013).*

*Advancing the theory of deuteron stripping reactions populating bound states and resonances and application for nuclear astrophysics, **A.M. Mukhamedzhanov**, Instituto de Estructura de la Materia, Madrid, Spain (April 2013).*

Gravitational interaction of nucleons with mini black holes, **A.M. Mukhamedzhanov**, Instituto de Estructura de la Materia, Madrid, Spain (April 2013).

Advancing the theory of deuteron stripping reactions populating bound states and resonances and application for nuclear astrophysics, **A.M. Mukhamedzhanov**, **Seminar**, CERN, Isolde Group, Geneva, Switzerland, (May 2013).

Advancing the theory of deuteron stripping reactions populating bound states and resonances and application for nuclear astrophysics, **A.M. Mukhamedzhanov**, **Invited Talk**, 2nd International workshop Tandem/ALTO, Orsay/Paris, France (May 2013).

Advancing the theory of deuteron stripping reactions populating bound states and resonances and application for nuclear astrophysics, **A.M. Mukhamedzhanov**, Surrey University, Guilford, United Kingdom (May 2013).

Advancing the theory of deuteron stripping reactions populating bound states and resonances and application for nuclear astrophysics, **A.M. Mukhamedzhanov**, **Invited Talk**, Workshop on Quasi-Free Scattering with Radioactive Beams 13, Terceira, Azore Islands, Portugal (September 2013).

Indirect methods in nuclear astrophysics, **A.M. Mukhamedzhanov**, **Invited Lecture**, European School on Nuclear Astrophysics, Santa Tecla, Italy (September 2013).

Gravitational interaction of nucleons with mini black holes, **A.M. Mukhamedzhanov**, **Invited Lecture**, European School on Nuclear Astrophysics, Santa Tecla, Italy (September 2013).

Nuclear reactions as indirect methods in nuclear astrophysics, **A.M. Mukhamedzhanov**, **Invited Talk**, 27th Texas Symposium on Relativistic Astrophysics, Dallas, Texas (December 2013).

Connections between dilepton data and chiral symmetry restoration, **P. Hohler**, **Invited Talk**, Int. Workshop on “Electromagnetic Probes of Strongly Interacting Matter”, ECT* Trento, Italy (May 2013).

Theory of thermal electromagnetic radiation, **R. Rapp**, **3 Invited Lectures**, JET Collaboration Summer School, Ohio State University, Columbus, Ohio (June 2013).

Thermal electromagnetic emission, **R. Rapp**, **Invited Talk**, Int. Workshop on “Future Trends in High-Energy Nuclear Collisions, Beijing, China (August 2013).

Light vector mesons in medium: from constraints to predictions, **R. Rapp**, **Invited Talk**, EMMI RRTF Symposium on “Electromagnetic Emissivity of Matter under Extreme Conditions”, GSI, Darmstadt, Germany (October 2013).

Heavy-flavor transport in heavy-ion collisions, **R. Rapp**, **Invited Talk**, EMMI Workshop on “Heavy Flavor and QCD Phase Structure in Heavy-Ion Collisions”, Lawrence Berkeley National Laboratory, Berkeley, California (November 2013).

Heavy flavor and deconfinement, **R. Rapp**, **Invited Talk**, Sapore Gravis Workshop, Nantes, France (December 2013).

Background on thermal photon rates in QCD matter, **R. Rapp**, EMMI Rapid Reaction Task Force on “Direct-Photon Flow Puzzle”, GSI, Darmstadt, Germany (February 2014).

Quarkonia in the quark-gluon plasma, **R. Rapp**, **Invited Seminar**, Tsinghua University, Beijing, China (August 2013).

Dileptons and chiral symmetry restoration, **P. Hohler**, **Invited Seminar**, Rice University, Houston, Texas (March 2014).

From dileptons in heavy-ion collisions to chiral restoration at high temperature, **R. Rapp**, **Invited Seminar**, Duke University, Durham, North Carolina (March 2014).

Mass generation+melting with the strong force, **R. Rapp**, Cyclotron's REU program, Texas A&M University, College Station, Texas (June 2013).

Mass melting and deconfinement at a trillion degrees, **R. Rapp**, Graduate Student Research Seminar, Texas A&M University, College Station, Texas (September 2013).

Dileptons and chiral symmetry restoration, **P. Hohler**, Nuclear Theory Seminar, Texas A&M University, College Station, Texas (March 2014).

On physics and status of AMPT, **C.M. Ko**, **Invited Talk**, International Workshop on Particle Production in Proton-Proton Interactions and Beyond, Bad Liebenzell, Germany (April 2013).

Elliptic flow difference between particles and antiparticles and the EOS of baryon-rich matter, **C.M. Ko**, **Invited Talk**, XXXI Max Born Symposium and HIC for FAIR Workshop on Critical Behavior in Hot Dense QCD, Wroclawski, Poland (June 2013).

Hadronization via coalescence in the AMPT approach, **C.M. Ko**, **Invited Talk**, International Workshop on Transport Theory in Heavy Ion Collisions, Frankfurt, Germany (July 2013).

Elliptic flow as a probe of the QCD phase diagram at finite chemical potential, **C.M. Ko**, **Invited Talk**, 10th International Workshop on QCD Phase Transition and Relativistic Heavy Ion Physics, Chengdu, Sichuan, China (August 2013).

Fluctuations and correlations in AMPT, **C.M. Ko**, **Invited Talk**, 2nd Workshop on Initial Fluctuations and Final Correlations, Chengdu, Sichuan, China (August 2013).

Elliptic flow of baryon-rich matter, **C.M. Ko**, **Invited Talk**, The 9th International Workshop on Relativistic Aspects of Nuclear Physics, Rio de Janeiro, Brazil (September 2013).

Mean-field effects in hot dense matter, **C.M. Ko**, **Invited Talk**, Tribute to Gerald E. Brown Conference, Stony Brook, New York (November 2013).

Elliptic flow as a probe of the properties of baryon-rich QGP, **C.M. Ko**, **Invited Talk**, International Workshop on New Frontiers in QCD, Kyoto, Japan (December 2013).

Particle production in heavy ion collisions, **C.M. Ko**, **Invited Talk**, International Workshop on Simulations of Low and Intermediate Energy Heavy Ion Collisions, Shanghai, China (January 2014).

Hot medium effects on J/ψ production in $p+Pb$ collisions at $\sqrt{s}=5.02$ TeV, **Y. Liu**, International Workshop on Heavy Flavor and QCD Phase Structure in High-Energy Collisions, Berkeley, California (November 2013).

Progress report from TAMU on recombination, **K. Han**, **Invited Talk**, 2013 JET Collaboration Meeting, Columbus, Ohio (June 2013).

Quarkonia production in heavy ion collisions, **C.M. Ko**, Shanghai Institute of Applied Physics, Chinese Academy of Sciences, Shanghai, China (January 2014).

Gluon dissociation of charmonium beyond the dipole approximation, **Y. Liu**, Cyclotron Institute, Texas A&M University, College Station, Texas (April 2013).

Hot medium effects on J/ψ production in $p+Pb$ collisions at 5.02 TeV, **Y. Liu**, Cyclotron Institute, Texas A&M University, College Station, Texas (November 2013).

Recombination for JET shower MC: status and discussion, **Rainer J. Fries**, **Invited Talk**, JET NLO and Monte Carlo Meeting, Detroit, Michigan (August 2013).

Uncertainties in jet event generators due to hadronization scheme, other issues with energy loss on E-by-E hydro, and the extraction of transport coefficients, **Rainer J. Fries**, **Invited Talk**, RHIC Strategy Meeting, Detroit, Michigan (August 2013).

Flowing gluon fields: collective phenomena in classical QCD, **Rainer J. Fries**, **Invited Talk**, 15th Conference on Elastic and Diffractive Scattering (EDS Blois 2013), Saariselka, Finland (September 2013).

Flowing gluon fields: collective phenomena in classical QCD, **Rainer J. Fries**, **Invited Talk**, 9th Workshop on High P_T at LHC, Grenoble, France (September 2013).

Initial flow of gluon fields in heavy ion collisions, **Rainer J. Fries**, 6th International Conference on Hard and Electromagnetic Probes of High Energy Nuclear Collisions (Hard Probes 2013), Cape Town, South Africa (November 2013).

Flow and energy momentum tensor from classical gluon fields, **Rainer J. Fries**, New Frontiers in QCD (NFQCD 2013), Kyoto, Japan (December 2013).

High energy nuclear collisions: hard probes, heavy quarks, strong gluon fields, **Rainer J. Fries**, **Invited Colloquium**, Texas A&M University at Commerce, Commerce, Texas (September 2013).

Modern energy density functional for nuclei and the nuclear matter equation of state, **S. Shlomo**, **Invited Talk**, Ben-Gurion University, Beer Sheva, Israel (April 2013).

From outside users

Distribution of angular momentum transfers from (p,d) and (p,t) reactions in the high excitation energy continuum region of gadolinium nuclei, **T. Tarlow**, APS Meeting Div. Nucl. Phys., Newport News, Virginia (October 2013).

Stewardship science at the University of Richmond, **A. Simon**, The Stewardship Science Academic Alliance annual symposium, Washington DC (February 2014).

Magnetic moment measurements extending isotopic chains, **G.J. Kumbartzki** and N. Benczer-Koller, XX International School on Nuclear Physics, Neutron Physics, and Applications, Varna, Bulgaria (September 2013).