

TALKS PRESENTED

April 1, 2012 – March 31, 2013

Low energy nuclear physics facilities in the US and opportunities for collaboration, **R.E. Tribble**, **Invited Talk**, US-Korea Workshop on International Cooperation on Particle, Nuclear and Astrophysics Research, South Korea (April, 2012).

The state of affairs of present and future nucleus-nucleus collision science, **R.E. Tribble**, **Invited Key-note Talk**, the NN2012 International Conference in San Antonio, Texas (May 2012).

Asymptotic normalization coefficients as an indirect technique for nuclear astrophysics, **R.E. Tribble**, **Invited Presentation**, the Carpathian Summer School, Sinaia, Romania (July, 2012).

Interim report from the nuclear science advisory subcommittee on implementing the 2007 long range plan, **R.E. Tribble**, Nuclear Science Advisory Committee Meeting, Washington, D.C. (September 2012).

Stable beam reaction rates by indirect techniques, **R.E. Tribble**, **Invited Presentation**, the Nuclear Astrophysics, Town Meeting in Detroit, Michigan (October 2012).

Implementing the NSAC 2007 long range plan, **R.E. Tribble**, report to NSAC, January, 2013.

Measurement of V_{ud} with $0^+ \rightarrow 0^+$ nuclear beta decays, **J.C. Hardy**, **Invited Talk**, 11th International Conference on the Intersections of Particle and Nuclear Physics, St. Petersburg, Florida (May 2012).

Superallowed nuclear beta decay: precision measurements for basic physics, **J.C. Hardy**, **Invited Talk**, Carpathian Summer School of Physics 2012, Sinaia, Romania (June 2012).

Beta decay: a window on fundamental symmetries (parts 1, 2, and 3), **J.C. Hardy**, **Invited lectures (3)**, Ecole Joliot Curie, Frejus, France (September 2012).

Ernest Rutherford and the origins of nuclear physics, **J.C. Hardy**, **Colloquium**, University of North Carolina, Chapel Hill, North Carolina (November 2012).

Experimental aspects in the precise superallowed nuclear beta-decay measurements, **V.E. Jacob**, **Invited Talk**, Carpathian Summer School of Physics 2012, Sinaia, Romania (June 2012).

Probing fundamental physics with precision superallowed beta-decay experiments, **L. Chen**, **Seminar**, University of Tennessee, Knoxville, Tennessee (May 2012).

High-precision measurements of the superallowed beta decays of ^{38}Ca and ^{46}V , **H.I. Park**, **Seminar**, Center for Experimental Nuclear Physics and Astrophysics, University of Washington, Seattle, Washington (November 2012).

New ICC precision measurements in ^{119}Sn , **N. Nica**, U.S. Nuclear Data Program annual meeting, Brookhaven National Lab, Upton, New York (November 2012).

$^{119}\text{Sn}^m$ – a difficult experimental case to test internal-conversion theory, **N. Nica**, 20th meeting of the Nuclear Structure and Decay Data network, Kuwait (January 2013).

Further test of internal-conversion theory with a measurement in $^{119}\text{Sn}^m$, **N. Nica**, International Conference on Nuclear Data for Science and Technology, New York City, New York (March 2013).

Measurement of branching ratios in the β decay of ^{38}Ca , **H.I. Park**, J.C. Hardy, V.E. Iacob, M. Bencomo, L. Chen, J. Goodwin, V. Horvat, N. Nica, B. Roeder, L. Trache and R.E. Tribble, APS Meeting, Atlanta, Georgia (March 2012).

The giant monopole resonance, nuclear matter incompressibility and symmetry energy, **Y.-W. Lui**, **Colloquium**, Shanghai Jiao Tung University, Shanghai, China (April 2012).

The systematic of giant monopole resonance and the implications for nuclear matter incompressibility, **Y.-W. Lui**, **Colloquium**, Shanghai Institute of Applied Physics (SINAP), Shanghai, China (April 2012).

Giant monopole resonance – experiment, **Y. –W. Lui**, **Invited Lectures (5)**, Institute of Modern Physics (IMP) & Heavy Ion Research Facility in Lanzhou (HIRFL), Lanzhou, China (Sept. 2012).

Systematics of giant monopole resonance and recent studies, **Y.-W. Lui**, **Invited Talk**, Conference in Collective Motions in Nuclei under Extreme conditions (COMEX4), Hayama, Kanagawa, Japan (October 2012)

α -cluster states in $N \neq Z$ nuclei, **V.Z. Goldberg**, **Invited Talk**, Conference in Nuclear dynamics and structure'12, Opatija, Croatia (July 2012).

Unusual states in light nuclei, **V.Z. Goldberg**, **Invited Talk**, Conference in Fundamental Problems of Nuclear Physics, Atomic Power Engineering and Nuclear Technologies, Voronezh, Russia (June, 2012).

Exciting examples of unusual nuclear structure in light nuclei, **V.Z. Goldberg**, **Seminar**, Lomonosov Moscow State University, Moscow, Russia (July 2012).

Nuclear structure problems to investigate at ACCULINNA, **V.Z. Goldberg**, **Seminar**, JINR. FLNR. Dubna, Russia (August 2012).

The RHIC spin program: achievements and future opportunities, **C.A. Gagliardi**, **Invited Talk**, (on behalf of the RHIC Spin Collaboration), APS Div. Nucl. Phys., Mini-Town Meeting on RHIC Physics, Newport Beach, California (October 2012).

What makes the proton spin? **C.A. Gagliardi**, **Invited Talk**, DOE Office of Science Graduate Fellows Ann. Meet., Brookhaven National Laboratory, Upton, New York (July 2012).

Recent results from RHIC, **C.A. Gagliardi**, **Invited Plenary**, 11th Int. Conf. Nucl.-Nucl. Coll. (NN2012), San Antonio, Texas (May 2012).

Measurement of the $d(^{26}\text{Al}^m, p)^{27}\text{Al}$ reaction for nuclear astrophysics, **B.T. Roeder**, **Invited Talk**, M. McCleskey, L. Trache, V.Z. Goldberg, V.E. Iacob, E. Simmons, A. Spiridon, R.E. Tribble, M. Gulino, M. LaCognata, R.G. Pizzone, G.G. Rapisarda, R. Sparta, C. Spitaleri, T. Davinson, G. Lotay, P.J. Woods, XXXV Reunião de Trabalho sobre Física Nuclear no Brasil, Maresias, Brasil (September 2012).

AstroBox - a new detection system for very low-energy protons from \hat{I}^2 -delayed p -decay, **Alexandra Spiridon**, Carpathian Summer School of Physics 2012: exotic nuclei and nuclear/particle astrophysics (IV), Sinaia, Romania (July 2012).

Gluon polarization and jet production at STAR, **P. Djawotho**, **Invited Talk**, (for the STAR Collaboration), 3rd Workshop QCD Struct. Nucl. (QCD-N'12), Bilbao, Spain (October 2012).

Forward two-particle correlations and asymmetries from polarized p+p at $\sqrt{s} = 200$ GeV at STAR, **J.L. Drachenberg**, **Seminar**, Physics Department, Valparaiso University, Valparaiso, Indiana (May 2012).

Forward two-particle correlations and asymmetries from polarized p+p at $\sqrt{s} = 200$ GeV at STAR, **J.L. Drachenberg**, **Seminar**, Physics Department, University of Texas, Austin, Texas (May 2012).

Transverse spin effects and graduate school musings, **J.L. Drachenberg**, **Seminar**, Physics Department, Abilene Christian University, Abilene, Texas (April 2012).

Probing high-temperature QCD matter, **S. Mioduszewski**, **Colloquium**, Florida Atlantic University, Boca Raton, Florida (April 2012).

Long-range pseudo-rapidity correlations at high p_T in $\sqrt{s_{NN}} = 200$ GeV Au+Au, **Martin Coddington**, **Seminar**, University of Texas, Austin, Texas (May 2012).

TAMU-TRAP facility for weak interaction physics, **P. Shidling**, **Invited Talk**, DAE Symposium on Nuclear Physics, Delhi University, New Delhi, India (Dec. 2012).

The state of the art for extracting V_{ud} from nuclear β decay, **D. Melconian**, **Invited Talk**, 7th International Workshop on the CKM Unitarity Triangle, Cincinnati, Ohio (Sept. 2012).

^{37}K beta asymmetry, **R.S. Behling**, **Invited Progress Report**, ISAC Science Forum, TRIUMF, Vancouver, British Columbia (Dec. 2012).

Precise lifetime measurements of $T=1/2$ nuclei, **P. Shidling**, DAE Symposium on Nuclear Physics, Delhi University, New Delhi, India (Dec. 2012).

SAMURAI TPC: a time projection chamber to study the nuclear symmetry energy at RIKEN-RIBF with rare isotope beams, **A.B. McIntosh**, **Invited Talk**, International Workshop of Nuclear Symmetry Energy and Reaction Mechanism (ASY-EOS 2012), Siracusa, Sicily, Italy (September 2012).

Increasing opportunities through negotiation and communication skills, **A.B. McIntosh**, **Invited Talk**, AAPT meeting, Philadelphia (July 2012).

Asymmetry dependence of the nuclear caloric curve, **A.B. McIntosh**, **Invited Talk**, 11th International Conference on Nucleus-Nucleus Collisions, San Antonio (May 2012)

Nuclear & radiochemistry at Texas A&M University: Assuring a future U.S. based nuclear and radiochemistry expertise, **Sherry Yennello**, **Invited Talk**, Public Briefing, National Academy of Science, Washington, DC (May 2012).

Using heavy ion collisions as a probe of the nuclear equation of state, **Sherry Yennello**, **Invited Talk**, Carpathian Summer School of Physics 2012, Romania

Asymmetry dependence of the nuclear caloric curve, **Sherry Yennello**, **Invited Talk**, Workshop on Nuclear Symmetry Energy at Medium Energies (ASY-EOS), Siracusa, Italy (September 2012).

Stellar secrets: earth-bound insights to elements through heavy-ion reactions, **Sherry Yennello**, **Invited Talk**, Ethel Ashworth-Tsutsui Memorial Lecture And Awards Ceremony, College Station, Texas (November 2012).

SAMURAI TPC: A time projection chamber to study the nuclear symmetry energy at RIKEN-RIBF with rare isotope beams, **A.B. McIntosh**, APS Division of Nuclear Physics, Newport Beach, California (October 2012).

Asymmetry dependence of nuclear temperatures and densities, **A.B. McIntosh**, A. Bonasera , Z. Kohley , S. Galanopoulos , K. Hagel , L.W. May , P. Marini , D.V. Shetty , W.B. Smith , S.N. Soisson , G.A. Souliotis , B.C. Stein , R. Tripathi , S. Wuenschel , S.J. Yennello, APS Division of Nuclear Physics, Newport Beach, California (October 2012).

Distance calculation methods used in linearization for particle identification in multi-detector arrays, **L.W. May**, 22nd International Conference on the Application of Accelerators in Research and Industry (CAARI 2012) Fort Worth, Texas (August 2012).

Production of nuclides near the $N = 126$ shell using projectiles with $Z > 20$, **Charles M. Folden III**, APS April Meeting, Denver, Colorado, April 13, 2013

Prospects for the discovery of the next new element and chemical studies of the heaviest elements, **Charles M. Folden III**, **Invited Talk**, Texas A&M University Department of Chemistry Seminar, College Station, Texas (September 2012).

Heavy element chemistry at Texas A&M University - from off-Line to on-Line, **Megan E. Bennett**, 11th Workshop on a Recoil Separator for Superheavy Element Chemistry, Darmstadt, Germany (September 2012).

Development of a gas stopper for heavy elements chemistry at Texas A&M University, **Marisa C. Alfonso**, 11th Workshop on a Recoil Separator for Superheavy Element Chemistry, Darmstadt, Germany (September 14, 2012).

Heavy element chemistry at Texas A&M University - from off-line to on-line, **Megan E. Bennett**, International Nuclear Target Development Society Conference, Mainz, Germany (August 2012).

Heavy element chemistry at TAMU: from off-line to on-line, **Megan E. Bennett** (presented by Charles M. Folden III), 244th American Chemical Society National Meeting, Philadelphia, Pennsylvania (August 19, 2012).

Prospects for the discovery of the next new element, **Charles M. Folden III**, 244th American Chemical Society National Meeting, Philadelphia, Pennsylvania (August 19, 2012).

Prospects for the discovery of the next new element, **Charles M. Folden III**, **Invited Talk**, 11th International Conference on Nucleus-Nucleus Collisions, San Antonio, Texas (May 31, 2012).

Production of radon and thorium isotopes near $N = 126$ shell in ^{48}Ca and ^{54}Cr induced fusion reactions on ^{162}Dy , **Dmitriy A. Mayorov**, 11th International Conference on Nucleus-Nucleus Collisions, San Antonio, Texas (May 29, 2012).

Production of radon and thorium isotopes near $N=126$ shell closure in ^{48}Ca and ^{54}Cr induced fusion reactions on ^{162}Dy , **Dmitriy A. Mayorov**, APS April Meeting, Atlanta, Georgia (April 2012).

What information can be extracted from transfer reaction? **A.M. Mukhamedzhanov, Invited Talk**, International Workshop on Understanding spectroscopic factors, Institute of Extreme Matter, Darmstadt Technical University and GSI, Darmstadt, Germany (April 2012).

Generalized Faddeev equations for the deuteron stripping including the target excitations and Coulomb interaction, **A.M. Mukhamedzhanov**, DOE panel, Department of Energy, Germantown, Maryland, (September 2012).

Advancing the theory of deuteron stripping populating bound states and resonances, **A.M. Mukhamedzhanov**, DOE panel, Department of Energy, Germantown, Maryland, (September 2012).

Advancing the theory of deuteron stripping reactions populating bound states and resonances and application for nuclear astrophysics, **A.M. Mukhamedzhanov, Invited Talk**, 3rd International Symposium on Frontiers in Nuclear Physics, Beihang University, Beijing, China (November 2012).

Toward a complete description of heavy-flavor transport in medium, **M. He, Invited talk**, STAR Muon-Telescope-Detector Workshop, Tsinghua University, Beijing, China (April 2012).

Heavy quarks and quarkonia in hot matter, **R. Rapp, Invited Lecture**, The Berkeley School of Collective Dynamics in High-Energy Collisions, Lawrence Berkeley National Laboratory, Berkeley, California (May 2012).

Toward a complete description of heavy-flavor transport in medium, **M. He**, 5th Int. Conf. on Hard and Electromagnetic Probes of High-Energy Nuclear Collisions, Cagliari, Italy (May 2012).

Update on search for chiral symmetry restoration in heavy-ion collisions, **R. Rapp, Invited Talk**, 11th Int. Conf. on Nucleus-Nucleus Collisions (NN2012), San Antonio, Texas (May 2012).

Theoretical perspective on electromagnetic radiation at RHIC, **R. Rapp, Invited Talk**, 2012 Annual AGS & RHIC User's Meeting, Brookhaven National Laboratory, Upton, New York (June 2012).

Heavy flavor in medium, **R. Rapp, Invited Lectures (3)**, 2012 JET Collaboration Summer School, McGill University, Montreal, Canada (June 2012).

Comprehensive analysis of in-medium quarkonia at SPS, RHIC and LHC, **R. Rapp**, 23rd Int. Conf. on Ultrarelativistic Nucleus-Nucleus Collisions (Quark Matter 2012), Washington DC (August 2012).

Thermal electromagnetic radiation in heavy-ion collisions, **R. Rapp, Invited Lecture**, 34th Int. School of Nuclear Physics on "Probing the Extremes of Nuclear Matter with Heavy Ions", Erice, Italy (September 2012).

Theory of thermal dileptons, **R. Rapp, Invited Talk**, Symposium on "Hot Topics in Hot Matter" in Honor of I. Tserruya's 70th birthday, Weizmann Institute, Rehovot, Israel (October 2012).

Nonperturbative heavy-flavor diffusion and hadronization in a hydrodynamics description of heavy-ion collisions, **M. He, Invited Talk**, 5th Int. Workshop on Heavy-Quark Production in Heavy-Ion Collisions, Utrecht University, Netherlands (November 2012).

Thermal dileptons, **R. Rapp, Invited Talk**, Thermal Radiation Workshop, Brookhaven National Laboratory, Upton, New York (December 2012).

Connection between dilepton data and chiral symmetry restoration, **P. Hohler, Invited Talk**, Thermal Radiation Workshop, Brookhaven National Laboratory, Upton, New York (December 2012).

Electromagnetic radiation and heavy flavor in heavy-ion collisions, **R. Rapp, Invited Talk**, EMMI Workshop on Perspectives and Challenges for Future Experiments in Heavy-Ion Collisions, GSI Darmstadt, Germany (February 2013).

Dilepton production in heavy-ion collisions, **R. Rapp, Invited Talk**, 8th Int. Workshop on Critical Point and Onset of Deconfinement, Napa, California (March 2013).

Update on search for chiral symmetry restoration in heavy-ion collisions, **R. Rapp, Invited Heavy-Ion Forum Seminar**, CERN, Geneva, Switzerland (March 2012).

Chiral symmetry restoration in heavy-ion collisions, **R. Rapp, Invited High-Energy/Nuclear Physics Seminar**, Rice University, Houston, Texas (June 2012).

Anisotropic flows in HIC, **C.M. Ko, Invited Talk**, Symposium on Cosmo, Cancer, Criticality and Chromoplasmodology, Seattle, Washington (May 2012).

Dihadron correlations in AMPT, **C.M. Ko, Invited Talk**, Workshop on the Ridge Correlation in High-Energy Collisions at RHIC and LHC, Seattle, Washington (May 2012).

Probing the nuclear symmetry energy with rare isotope beams, **C.M. Ko, Invited Talk**, Workshop on Rare Isotope Physics Theory, Daejeon, Korea (May 2012).

Why particles and antiparticles flow differently?, **C.M. Ko, Invited Talk**, Symposium on Contemporary Subatomic Physics, Montreal, Canada (June 2012).

Effects of hadronic mean-field potentials on elliptic flows in HIC, **C.M. Ko, Invited Talk**, Second International Symposium on Non-Equilibrium Dynamics, Heraklion, Greece (June 2012).

Anisotropic flows and dihadron correlations in AMPT, **C.M. Ko, Invited Talk**, Workshop on Initial State Fluctuations and Final State Correlations in Heavy-Ion Collisions, Trento, Italy (July 2012).

Quarkonia production in relativistic heavy ion collisions, **C.M. Ko, Invited Talk**, Conference on Heavy Ion Collisions in the LHC Era, Qui Nhon, Vietnam (July 2012).

Mean-field effects on elliptic flow in relativistic heavy ion collisions, **C.M. Ko, Invited Talk**, Bertsch Symposium on Nuclear Physics, Seattle, Washington (September 2012).

Elliptic flow of baryon-rich matter, **C.M. Ko, Invited Talk**, The International Workshop on Nuclear Dynamics in Heavy-Ion Collisions, Shenzhen, China (December 2012).

Event-by-event bottomonia suppression in relativistic heavy-ion collisions, **T. Song**, 11th International Conference on Nucleus-Nucleus Collisions, San Antonio, Texas (May 2012).

Subthreshold cascade production in heavy ion collisions, **F. Li**, 11th International Conference on Nucleus-Nucleus Collisions, San Antonio, Texas (May 2012).

Patonic mean-field effects on elliptic flows, **T. Song, Invited Talk**, 4th Asian Triangle Heavy Ion Conference, Pusan, Korea (November 2012).

Density and temperature of fermions from quantum fluctuations, **H. Zheng**, A. Bonasera, 11th international conference on nucleus-nucleus collisions (NN2012), San Antonio, Texas (May 2012).

Density and temperature of fermions and bosons from quantum fluctuations, **H. Zheng, Invited Talk**, G. Giuliani, and A. Bonasera, International Workshop on Nuclear Dynamics in Heavy-Ion Collisions (IWND12), Shenzhen, China (December 2012).

Energy density functional for nuclei and the current status of the equation of state of nuclear matter, **S. Shlomo, Invited Talk**, Conference on Beauty in Physics: Theory And Experiment, in Honor of Franco Iachello, on The Occasion of his 70th Birthday, Hacienda, Cocoyoc, Mexico, (May 2012).

Modern Energy density Functional And The Current Status of The Equation of state of Nuclear Matter, **S. Shlomo, Invited Talk**, Carpathian Summer School of Physics-2012 (CSSP12), Sinaia, Romania (June 2012).

Modern energy density functional for properties of finite nuclei and the nuclear matter, **S. Shlomo, Invited Talk**, The 4th International Conference on Current Problems in Nuclear Physics And atomic Energy (NPAE2012), Kiev, Ukraine (September 2012).

Determining modern energy density functional for nuclei and the status of the equation of state of Nuclear matter, **S. Shlomo, Invited Talk**, Department of Physics, Texas A&M University at Commerce, Texas (February 2013).

Giant resonances in ⁴⁰Ca and ⁴⁸Ca, **M.R. Anders, Invited Talk**, 11th International Conference on Nucleus- Nucleus Collisions (NN2012), San Antonio, Texas (May 2012).

Giant resonances in ⁴⁰Ca and ⁴⁸Ca, **M.R. Anders**, Joint Fall Meeting of the Texas Section of APS, AAPT and Zone 13 of the SPS, (October 2012)

Quark recombination, **Rainer J. Fries, Invited Talk**, Workshop Cosmos, Cancer, Criticality and Chromoplasmology, Seattle, Washington (May 2012).

Jet-triggered back-scattering photons for QGP tomography, **Rainer J. Fries**, 5th International Conference on Hard and Electromagnetic Probes of High-Energy Nuclear Collisions (Hard Probes 2012), Cagliari, Italy (May 2012).

Flowing gluon fields, **Rainer J. Fries, Invited Talk**, Symposium on Contemporary Subatomic Physics (SCSP 2012), McGill University, Montreal, Quebec (June 2012).

Jet-triggered back-scattering photons for QGP tomography, **Rainer J. Fries**, Quark Matter 2012, Washington DC (August 2012).

Toward a comprehensive description of heavy flavor dynamics, **Rainer J. Fries, Invited Talk**, KMI Workshop QGP 2012, Kobayashi-Maskawa Institute, Nagoya, Japan, (September 2012)

Open heavy flavor probes in strongly interacting nuclear matter, **Rainer J. Fries, Invited Talk**, 8th Workshop on High-P_T Physics at LHC, Wuhan, China (October 2012)

*Introduction to heavy ion collisions, **Rainer J. Fries**, **Invited Lectures** (Series of six lectures), SERC School, VECC Kolkata, India, (January 2013).*

*Non-perturbative heavy-flavor transport at RHIC and LHC, **Min He**, 5th International Conference on Hard and Electromagnetic Probes of High-Energy Nuclear Collisions (Hard Probes 2012), Cagliari, Italy (May 2012).*

*Initial conditions with flow from a McLerran Venugopalan model with transverse dynamics, **Guangyao Chen**, Hot Quarks 2012, Guanica Puerto Rico (October 2012).*

*Jet-tagged back-scattering photons in heavy-ion collisions, **Somnath De**, 8th Workshop on High- P_T Physics at LHC, Wuhan, China (October 2012).*

*Dileptons and photons from the hadronization process, **Guangyao Chen**, RBRC Workshop on Thermal Radiation, Brookhaven National Laboratory, Upton, New York (December 2012).*