

Kabir Roy Chowdhury - leaves (probably) wasted

Journal articles

- 1976** Roy Chowdhury, K. and V. P. Singh: Rayleigh waves in an inhomogeneous system of layers overlying a half-space, *Geophys. Res. Bull.*, XIV, 217-224.
- 1977** Roy Chowdhury, K. and V. P. Singh: On the propagation of SH waves in a three-layered inhomogeneous model, *Geophys. Res. Bull.*, XV, 51-56.
- 1978** Kaila, K. L., V. G. Krishna, K. Roy Chowdhury, and Hari Narain: Structure of the Kashmir Himalaya from Deep Seismic Soundings, *Jour. Geol. Soc. Ind.*, XIX, 1-20.
- 1979** Kaila, K. L., P. R. Reddy, V. G. Krishna, K. Roy Chowdhury, H. C. Tewari, P. R. K. Murty, and K. M. Tripathi: Crustal investigations in India from Deep Seismic Soundings, *Geophys. Res. Bull.*, XVII, 273-292.
- 1979** Kaila, K. L., K. Roy Chowdhury, P. R. Reddy, V. G. Krishna, Hari Narain, S. I. Subbotin, V. B. Sollogub, A. V. Chekunov, G. E. Kharetechko, M. A. Lazarenko, and T. V. Ilchenko: Crustal structure along Kavali-Udipi profile in the Indian Peninsular Shield from from Deep Seismic Sounding, *Jour. Geol. Soc. Ind.*, XX, 307-333.
- 1979** Subbotin, S. I., V. B. Sollogub, A. V. Chekunov, G. E. Kharetechko, M. A. Lazarenko, T. V. Ilchenko, K. L. Kaila, K. Roy Chowdhury, P. R. Reddy, V. G. Krishna, and Hari Narain: Deep Seismic Study of the Indian Shield, *Geophy. Jour. Ukr. Acad. Sci.*, I, 3-18.
- 1981** Phinney, R. A., K. Roy Chowdhury, and L. Neil Frazer: Transformation and analysis of record sections, *Jour. Geophys. Res.*, 86, No. B1, 359-377.
- 1981** Roy Chowdhury, K. and R. B. Hargraves: Deep Seismic Soundings in India and the origin of continental crust, *Nature*, 291, No. 5817, 648-650.
- 1982** Kaila, K. L., K. Roy Chowdhury, and V. G. Krishna: An analytical migration method for crustal wide angle reflections, *Stud. Geophys. et Geod.*, 26, 254-271.
- 1982** Roy Chowdhury, K. and R. B. Hargraves: Thermomechanical inferences from deep seismic sounding sections, *Nature*, 296, 586-587.
- 1983** Kaila, K. L., K. Roy Chowdhury, V. G. Krishna, M. M. Dixit and H. Narain: Crustal structure of the Kashmir Himalaya and inferences about the asthenospheric layer from DSS studies along the international profile Qarrakol (Karakul) - Zorkol - Nangaparbat - Srinagar, *Bolletino Geofisica Teorica ed Applicata*, XXV, No. 99-100, 221-234
- 1985** Kong, S., R. A. Phinney and K. Roy Chowdhury: A non-linear signal detector for enhancement of noisy seismic record sections, *GEOPHYSICS*, 50, No. 4, 539-550.
- 1987** Roy Chowdhury, K. and Robert A. Phinney: Improved resolution of reflections from the crystalline upper crust, *GJRS*, 89, No. 1, 35-40.
- 1987** Kaila, K. L., H. C. Tewari, K. Roy Chowdhury, V. K. Rao, A. R. Sridhar and D. M. Mall: Crustal structure of the northern part of the Proterozoic Cuddapah Basin of India from deep seismic soundings and gravity data, *Tectonophysics*, 140, No. 1, 1-12.

- 1988** Hansen, K. M., K. **Roy Chowdhury** and Robert A. Phinney: The sign filter for seismic event detection, *GEOPHYSICS*, 53, No. 8, 1024-1033.
- 1999** Devilee, R., A. Curtis and K. **Roy Chowdhury**: An efficient, probabilistic neural network approach to solving inverse problems; inverting surface wave velocities for Eurasian crustal thickness, *Jour. Geophys. Res.*, 104, 28,841-28,857.
- 2000** Richwalski, S., K. **Roy Chowdhury** and J.C. Mondt: Practical aspects of wavefield separation of two-component surface seismic data based on polarisation and slowness estimates, *Geophysical Prospecting*, 48 (4), 697-722.
- 2001** Douma, H. and K. **Roy Chowdhury**: Amplitude effects due to multi-scale impedance contrasts and multiple scattering: implications for Ivrea-type continental lower crust, *Geophysical Journal International*, 147 (2), 435-448.
- 2001** Richwalski, S., K. **Roy Chowdhury**, and J.C. Mondt, J. C.: Multi-component wavefield separation applied to high-resolution surface seismic data}, *Jour. Appld. Geophys.*, 46, 101-114.
- 2001** Cox, B.E., P.L.A. Winthagen, D.J. Verschuur and K. **Roy Chowdhury**: Common Focus Point Velocity Estimation for laterally varying velocities, *First Break*, 19 (2), 75-83.
- 2006** Zon, T.v. and K. **Roy Chowdhury**: Structural inversion of gravity data using linear programming, *GEOPHYSICS*, 71 (3), J41-J50.
- 2007** Zon, T.v., P. Ditmar, K. **Roy Chowdhury** and J.C. Mondt: Lithotype discrimination within a gridded model by inverting gravity data, *Geophysical Journal International*, 170, 481-491.
- 2007** Carpentier, S.F.A. and K. **Roy Chowdhury**: Underestimation of scale lengths in stochastic fields and their seismic response: a quantification exercise, *Geophysical Journal International*, 169, 547-562.
- 2009** Carpentier, S.F.A. and K. **Roy Chowdhury**: Conservation of lateral stochastic structure of a medium in its simulated seismic response, *Jour. Geophys. Res.*, 114, B10314.
- 2009** Carpentier, S.F.A., K. **Roy Chowdhury**, R.A. Stephenson and S. Stovba: Delineating tectonic units beneath the Donbas fold belt using scale lengths estimated from DOBRE 2000/2001 deep reflection data, *Jour. Geophys. Res.*, 114, B10315.
- 2010** Zon, T.v. and K. **Roy Chowdhury**: Implicit Structural Inversion of gravity data using Linear Programming, a validation study, *Geophysical Prospecting*, 58, 697-710.
- 2010** Carpentier, S.F.A., K. **Roy Chowdhury** and C.A. Hurich: Mapping correlation lengths of lower crustal heterogeneities together with their maximum-likelihood uncertainties, *Tectonophysics*, in press.

Articles in books - Reports

- 1988** Hatcher, R. D., Jr., R. T. Williams, S. H. Edelman, J. K. Costain, C. Coruh, R. A. Phinney, K. **Roy Chowdhury**, E. R. Decker, M. D. Zoback, D. Moos and R. N. Anderson: The Appalachian Ultra-deep Corehole (ADCOH) Project, in Deep Drilling in Crystalline Bedrock, v 2, Eds: A. Boden and G. Eriksson, Springer Verlag.
- 1989** Phinney, Robert A. and K. **Roy Chowdhury**: Reflection seismic studies of crustal structure in the Eastern United States, in Geophysical Framework of the Continental United States, GSA memoir 172, eds. L. C. Pakiser and W. D. Mooney, GSA.
- 1991** **Roy Chowdhury**, K. with others: GLI3D refraction statics - internal research memo ARCO Oil and Gas Company.
- 2004** Zon, A.T.v. and K. **Roy Chowdhury**: Feasibility study for investigating the internal structure of a blast furnace with micro gravity measurements, Confidential report presented to CORUS R&D, The Netherlands, 23 pp.
- 2011** **Roy Chowdhury**, K: Deep Seismic Reflection and Refraction Profiling, in Encyclopedia of Solid Earth Geophysics, ed: H.K. Gupta, 103-118, Springer.
- 2011** **Roy Chowdhury**, K: Seismic Data Acquisition and Processing, in Encyclopedia of Solid Earth Geophysics, ed: H.K. Gupta, 1081-1097, Springer.

Presentations:

- 1978** Kaila, K. L., K. **Roy Chowdhury**, P. R. Reddy, V. G. Krishna, Hari Narain, S. I. Subbotin, V. B. Sollogub, A. V. Chekunov, G. E. Kharechko, and M. A. Lazarenko: Crustal structure along Kavali-Udipi profile in the Indian Peninsular Shield from DSS, Indo-Soviet Workshop, Bangalore, Nov. 6-8.
- 1979** Phinney, R. A., K. **Roy Chowdhury**, and L. Neil Frazer: Transformation and analysis of record sections, fall meeting of the Am. Geophys. Union, EOS, 60, No. 46, 878.
- 1981** **Roy Chowdhury**, K. and R. B. Hargraves: Archean tectonics as reflected in the greenstone terrains, Symp. on Dharwars and their equivalents, Dharwad, Jan 24-25.
- 1982** Malin, P. E., T. L. Heyney, R. A. Phinney, R. W. Ward, K. **Roy Chowdhury**, J. Nation, and G. Tinsley: Mojave COCORP extended research project - vertical seismic profile (VSP) observations, fall meeting of the Am. Geophys. Union, EOS, 63, No. 45, 1032.
- 1982** **Roy Chowdhury**, K., Anne M. Suteau, and R. A. Phinney: Wide angle CERP in Mojave - preliminary results, fall meeting of the Am. Geophys. Union, EOS, 63, No. 45, 1032.
- 1982** Suteau, Anne M., K. **Roy Chowdhury**, Robert A. Phinney, Peter A. Malin, and Ronald W. Ward, The CERP piggyback experiment in the Mojave desert, fall meeting of the Am. Geophys. Union, EOS, 63, No. 45, 1032.
- 1983** **Roy Chowdhury**, K., Anne M. Suteau, and R. A. Phinney: Crustal structure and velocity estimation from Mojave CERP data, spring meeting of the Am. Geophys. Union, EOS, 64, No. 18, 259.
- 1983** Kong, S., R. A. Phinney and K. Roy Chowdhury: A non-linear signal detector for noisy sections, fall meeting of the Am. Geophys. Union, EOS, 64, No. 45, 769.
- 1984** Robert A. Phinney, K. **Roy Chowdhury** and James H. Leven: Accretional architecture in the continental crust, first International Symposium on 'Deep structure of the continental crust: results from reflection seismology', Cornell, Ithaka, NY.
- 1984** **Roy Chowdhury**, K. and James H. Leven: Structure of the upper lithosphere below the Central Eromanga Basin, Australia - paleo-collisional tectonics preserved, first regional assembly of the IASPEI, Hyderabad, India.
- 1984** Leven, J. H. and K **Roy Chowdhury**: A semblance-weighted slowness-filter in time domain, abs# S-46, 432-436, 54th. annual meeting SEG.
- 1984** **Roy Chowdhury**, K. and Robert A. Phinney: Migration of wide-angle data by wave-field continuation and imaging, abs# ??, 661-664, 54th. annual meeting SEG.
- 1984** Phinney, Robert A. and K. **Roy Chowdhury**: The role of accretion in the development of continental crust and its structure, first regional assembly of the IASPEI, Hyderabad, India.
- 1984** **Roy Chowdhury**, K., Jim Leven and Robert A. Phinney: Accretionary structure of the lithosphere beneath Eastern Australia, fall meeting of the Am. Geophys. Union, EOS, 65, No. 45, 1017.
- 1985** Phinney, Robert A., K. **Roy Chowdhury** and R. B. Hawman: Wide-angle reflection studies of continental crust, annual meeting of the Seismo. Soc. Am., Earthquake Notes, 55, No. 1, 4.

- 1985** Phinney, R. A. and K. **Roy Chowdhury**: High-resolution seismics for evaluating the proposed site for the S. Appalachian Deep Drill Hole, fall meeting of the Am. Geophys. Union, EOS, 66, No. 46, 987.
- 1986** **Roy Chowdhury**, K. and R. A. Phinney: High resolution seismic imaging of the detachment surfaces in the ADCOH ultra-deep drill-hole area, spring meeting of the Am. Geophys. Union, EOS, 67, No. 16, 363.
- 1986** Phinney, R. A. and K. **Roy Chowdhury**: Techniques for high resolution reflection profiling in continental basement, spring meeting of the Am. Geophys. Union, EOS, 67, No. 16, 376.
- 1986** Hatcher, R. D., R. T. Williams, C. Coruh, J. K. Costain, R. A. Phinney and K. **Roy Chowdhury**: Deep structure of the Southern Appalachians from ADCOH seismic and gravity data, spring meeting of the Am. Geophys. Union, EOS, 67, No. 16, 363.
- 1986** R. A. Phinney, J. B. Diebold and K. **Roy Chowdhury**: Seismic high-resolution and velocity surveys at the Southern Appalachian drill site, annual meeting of the AAPG.
- 1986** R. D. Hatcher, R. T. Williams, J. K. Costain, R. A. Phinney, J. L. Hopson, A. L. Stieve and K. **Roy Chowdhury**: Regional tectonic implications of New Appalachian Ultradeep Core Hole (ADCOH) site study seismic reflection, gravity, structural, and stratigraphic data, annual meeting of the AAPG.
- 1986** **Roy Chowdhury**, K. and Robert A. Phinney: High resolution seismic imaging in hard-rock terrane, DSS_86: 2nd. International Symposium on Deep Seismic Reflection Profiling of the Continental Lithosphere.
- 1986** **Roy Chowdhury**, K. and Robert A. Phinney: High Resolution imaging of the Southern Appalachian Overthrust, presented at the annual meeting of the Geol. Soc. Am.
- 1986** Kong, S., R. A. Phinney and K. **Roy Chowdhury**: Adaptive CDP stacking, fall meeting of the Am. Geophys. Union, EOS, 67, 44, 1107.
- 1986** **Roy Chowdhury**, K., S. I. Reddi, R. K. Drolia, B. Ashalata, G. S. Mittal, C. Subrahmanyam and R. N. Singh: On the structure of the Western Continental Margin off Mangalore coast, India, annual meeting of AEG (Dec 15-17), Trivandrum, India.
- 1987** **Roy Chowdhury**, K. and R. A. Phinney: Reprocessing and reinterpretation of COCORP Southern Appalachian seismic reflection lines, spring meeting of the Am. Geophys. Union, EOS, 68, 16, 425.
- 1987** Phinney, R. A., G. S. Pan and K. **Roy Chowdhury**: On the occurrence of reflective strongly layered zones in the mid- to lower-crust, spring meeting of the Am. Geophys. Union, EOS, 68, 16, 350.
- 1988** Phinney, R. A. and K. **Roy Chowdhury**: Structure and accretionary history of the Southern Appalachians as determined from seismic reflection data, South-eastern section meeting of the Geol. Soc. of America.
- 1988** **Roy Chowdhury**, K., R. A. Phinney and J. Pan: Consequences of multiple scales of layering for the crustal seismic response, International workshop and symposium on "Seismic probing of continents and their margins", Canberra, Australia.

- 1988** **Roy Chowdhury**, K. and R. A. Phinney: Reprocessed seismic sections: A tour through Eastern US, International workshop and symposium on "Seismic probing of continents and their margins", Canberra, Australia.
- 1988** Phinney, R. A., K. **Roy Chowdhury**, S. M. Kong, K. M. Hansen and J. Leven: Coherency techniques in processing crustal reflection data, International workshop and symposium on "Seismic probing of continents and their margins", Canberra, Australia.
- 1988** **Roy Chowdhury**, K. and Robert A. Phinney: Depth dependent deformational domains in the crust following continent-continent collisions, accepted for the Centennial Meeting of the Geological Society of America, GSA abstracts with programs, 20, 7.
- 1989** **Roy Chowdhury**, K.: Paleo-tectonic style in the Indian-Shield - evidence from the Deep Seismic Sounding Data, International Symposium on "Structure and Dynamics of the Indian Lithosphere", Hyderabad, India.
- 1991** **Roy Chowdhury**, K. and R. A. Phinney: Seismic evidence for intra-crustal delamination in palaeozoic and cenozoic suture zones, IASPEI/ILP symposium on "Plate Tectonic Signatures in the Continental Lithosphere", XX general assembly of IUGG, Vienna.
- 1991** **Roy Chowdhury**, K. with others: South-pass fill problem, outstanding paper award at the Emerging Technologies Session at ARCO Exploration Technology Conference.
- 1994** **Roy Chowdhury**, K.: Echo-sounding the Earth to investigate environmental problems, engineering aspects and evolution of the crust, invited-talk, 81st. Ind. Sci. Cong.
- 1995** **Roy Chowdhury**, K.: A statistical evaluation of deep crustal reflections, XX Gen Assembly, EGS.
- 1995** Schalkwijk, K.M., M. Schimmel and K. **Roy Chowdhury**: Use of surface-wave scattering to detect shallow buried objects, 58th. annual meeting DGG.
- 1995** Schrijnemaekers, I., E. Wielemaker, K. **Roy Chowdhury**, and J.W. Bredewout: Combined seismic/electrical investigations of an artesian aquifer below a dam-site in Costa-Rica, 1st. EEGS mtg, 415-418.
- 1995** Kempen, M.v. K. **Roy Chowdhury** and W. Spakman: Applicability of shallow cross-well tomography in Ground Water investigations, 57th. ann. mtg EAGE, p. 106.
- 1996** Zoomers, J. J.W. Bredewout and K. **Roy Chowdhury**: Combined application of seismic and electric methods in a shallow lake for for engineering and environmental studies, 2nd. NAC congress, p. 190.
- 1996** Hoff, G.J.v.d., J.A.C. Meekes, K. **Roy Chowdhury** and B.C. Scheffers: Source-depth optimisation in high resolution seismics, 2nd. EEGS mtg, 47-50.
- 1996** **Roy Chowdhury**, K., F.W. de Lind van Wijngaarden, and B. Makaske, Structure and physical parameters of shallow-sand bodies from seismic and resistivity data, abstract #M-016, 58th ann. conf EAGE.
- 1996** **Roy Chowdhury**, K. and S. Sule: Comparison of deep reflection signals from two co-incident seismic transects in the Pannonian Basin of Hungary, DSS_96: 8th. Intl. Symp, DSS-profiling of continents.

- 1997 Curtis, A., R. Devilee, K. **Roy Chowdhury** and R.K. Snieder, Eurasian crustal thickness and shear velocity structure obtained from phase-velocities using neural network inversion, EOS, Spring meeting of AGU.
- 1997 Richwalski, S., J.C. Mondt and K. **Roy Chowdhury**: Wavefield separation with the help of eigenvalue analysis of multi-component recordings (in German), 57th annual meeting DGG.
- 1997 **Roy Chowdhury**, K., R. Devilee and A. Curtis, Use of neural networks for non-linear non-unique inversion in geophysics, abs# ST-7.2, 1620-1623, 67th ann. mtg. SEG.
- 1997 Brouwer, J., P. Bakker, D. Kraaijpoel and K. **Roy Chowdhury**, The quantification and monitoring of data quality and the design of optimum sweeps, 3rd annual meeting of EEGS, 111-114.
- 1997 Devilee, R., A. Curtis and K. **Roy Chowdhury**: Bayesian inversion with neural networks in a surface-wave study, Cambridge.
- 1998 Richwalski, S., K. **Roy Chowdhury** and J.C. Mondt, J. C.: Multi-component wavefield separation based on polarization and slowness estimates, abs# 3.43, 4th. NAC.
- 1998 Kraaijpoel, D., J. Brouwer, K. **Roy Chowdhury** and P. Bakker, Real-time sweep optimization - An example of automated parameter selection, abs. #2-39, 60th. annual conf, EAGE.
- 1998 Kempen, M.H.v., G.G. Drijkoningen, V. Nijhof, T. Ter Burg and K. **Roy Chowdhury**: Comparison of shallow P- and S- wave seismic at the Huesca Fluvial Fan System in Spain, abs. #P-017, 60th. annual conf, EAGE.
- 1998 Richwalski, S., K. **Roy Chowdhury** and J.C. Mondt, J. C.: Multi-component wavefield separation based on polarization and slowness estimates, 60th. EAGE mtg, abs #5-46.
- 1998 Richwalski, S., K. **Roy Chowdhury** and J.C. Mondt, J. C.: Removal of the ground-roll in shallow seismics using multi-component data, 4th. EEGS mtg, 617-620.
- 1998 Kraal, R. and K. **Roy Chowdhury**: Lessons from a multi-component multi-source seismics to investigate a tunnel-site, p. 547, 4th. EEGS mtg.
- 1998 Douma, H. and K. **Roy Chowdhury**: The importance of multiple scattering in 1D bimodal fractal media: implications for imaging the continental lower crust, DSS_98: 8th. Intl. Symp on Deep Seismic Profiling of the Continents and their Margins.
- 1998 Wijk, K.v., J.A. Scales, W. Navidi and K. **Roy Chowdhury**: Estimating data uncertainties for least squares optimization, in annual project review volume 283, CWP.
- 1999 **Roy Chowdhury**, K and T. Tornqvist: High-resolution seismic investigation of the late-quaternary Rhine-Meuse fluvial sediments, annual meeting EGS.
- 1999 **Roy Chowdhury**, K and H. Douma: Can multiple scattering constrain the seismic structure at depth? annual meeting EGS.
- 1999 **Roy Chowdhury**, K: Co-incident CPT, borehole- and surface-seismics - A comparison, abs # SE-08, 2 pp, 5th EEGS mtg.
- 1999 Richwalski, S., K. **Roy Chowdhury** and J.C. Mondt: Two-component wavefield separation - the challenge of real data, abs# P-061, 4 pp, 61st annual meeting EAGE.

- 1999 Reijnders, J., J. Brouwer, V. Nijhof and K. **Roy Chowdhury**: Seismic impedance mapping, abs # SEP-07, 2 pp, 5th EEGS mtg.
- 1999 Rijst, M.v.d., K. **Roy Chowdhury**, C. Egmond, P. Kuipers, M. Pieters and M. Laitinen: Use of GPR below water: A case study, abs # GR-06, 2pp, 5th EEGS mtg.
- 1999 **Roy Chowdhury**, K: Relating geophysical measurements to the ground truth, 2nd ann. symp VMSG.
- 2000 **Roy Chowdhury**, K.: Seismic Images and the Ground Truth, DSS_00: 9th Intl. Symp on Deep Seismic Profiling of the Continents and their Margins.
- 2000 Ouwerkerk, S.v., R.K. Snieder and K. **Roy Chowdhury**: In-situ measurements of the shear-wave velocity in the shallow earth using a portable vibrator, abs # P-SE10, 2pp, 6th EEGS mtg.
- 2000 Kraaijpoel, D., R. K. Snieder and K. **Roy Chowdhury**: Efficient Calculation of Travel Time Tables in Complex Smooth Media, fall meeting AGU.
- 2001 Gourvil, Y., K. **Roy Chowdhury** and J. Mondt: Efficient S-wave generation in the presence of near-surface layers, abs# P-175, 4 pp, 63rd. annual meeting EAGE.
- 2001 Kraaijpoel, D., R. K. Snieder and K. **Roy Chowdhury**: Calculation of 2D ray fields in smooth media using a pseudo-spectral expansion technique, abs 20 (1), 1233-1236, 71st. ann. mtg, SEG.
- 2001 Bayer, U., D. Gajewski, Ch. Huebscher, W. Rabbel, K. **Roy Chowdhury***, V.I. Starostenko, R.A. Stephenson, S.M. Stovba, A. Tolkunov and H. Thybo: The Inverted Donbas Basin (Ukraine) - First Results from DOBReflection 2000, Jour. of conf. abstracts 6 (1), p337, XI ann mtg of EUG.
- 2001 DOBReflection2000Group: U. Bayer, D. Gajewski, Ch. Huebscher, W. Rabbel, K. **Roy Chowdhury***, A. Saintot, V.I. Starostenko, R.A. Stephenson, Yu. Maystrenko, S.M. Stovba, A. Tolkunov and H. Thybo: Deep reflection seismic, gravimetric and surface structural controls across a Devonian failed rift in The Southeastern Europe, abs# T51B-0866, EOS 82 (47), fall meeting of AGU.
- 2002 Drijkoningen, G.G., R.A. Stephenson, K. **Roy Chowdhury** and I. Panea: A seismic feasibility test for lower-crust investigation in the Netherlands, annual meeting of EGS.
- 2002 Kraaijpoel, R. Snieder and K. **Roy Chowdhury**: Construction of Single-Valued Ray Field Maps in the Position/Angle Domain for Ray-Based Imaging with Multiple Arrivals, abstract #B-013, 4 pp, 64th ann. mtg, EAGE.
- 2002 Zon, A.T.v., P. Ditmar, K. **Roy Chowdhury** and J.C. Mondt: Structural gravity inversion on a gridded 2-D model, abstract #D-10, 4 pp, 64th ann. mtg, EAGE.
- 2002 Kraaijpoel, D., K. **Roy Chowdhury** and R. Snieder: Ray field maps in position/angle domain: concepts and construction, abs 21 (1), 1927-1930, 72nd ann. mtg, SEG.
- 2003 Zon, T.v. and K. **Roy Chowdhury**: Structural inversion of gravity data using Linear Programming, 6th annual symposium VMSG.
- 2004 Zon, T.v. and K. **Roy Chowdhury**: L1- and L2-norm inversion of gravity data: a comparison, abs# 23 (1), 770-773, 74th. annual meeting, SEG.

- 2004** Parolai, S., M. Picozzi, C. Milkereit, S.M. Richwalski, F. Baliva, D. Albarello, K. **Roy Chowdhury**, H.v.d. Meer and J. Zschau: The Bornheim (Germany) test site - validation of 3 different techniques (ESAC, NASW, MASW) to derive s-wave velocity profiles, abs# ??, 4 pp, 10th EEGS meeting.
- 2005** Zon, T.v. and K. **Roy Chowdhury**: Structural inversion of gravity data using Linear Programming: A case study, abs# GM-P1.9, 720-723, 75th. annual meeting, SEG.
- 2005** Carpentier, S. and K. **Roy Chowdhury**: Approximate hybrid reconstruction of a stochastic medium from its seismic response using scale length analysis and partial spatial phase information, abs# S32A-03, EOS 86 (18), Joint Assembly, AGU.
- 2005** Carpentier, S. and K. **Roy Chowdhury**: Partial Reconstruction of a band-limited stochastic medium from its seismic response, 7th annual symposium VMSG.
- 2006** **Roy Chowdhury**, K. and Zon. T.v.: Sharpening the Edges to Leverage Seismics, 6th Intl conf on Petroleum Geophysics (KOL_06), 263-265.
- 2006** Carpentier, S. and K. **Roy Chowdhury**: Conservation of lithology power law structure in seismic reflection data under various circumstances, DSS_06: 12th Intl. Symp on Deep Seismic Profiling of the Continents and their margins.
- 2006** **Roy Chowdhury** and S.F. Carpentier: Seismic Imaging of the Continental Lower Crust - Possibilities of a Stochastic Approach, DSS_06: 12th Intl. Symp on Deep Seismic Profiling of the Continents and their margins.
- 2008** Carpentier, S.F.A., K. **Roy Chowdhury**, C.A. Hurich and R.A. Stephenson: Mapping correlation lengths of lower crustal heterogeneities from deep reflection data for delineating tectonic units, DSS_08: 13th. Intl. Symp on Deep Seismic Profiling of the Continents and their margins.
- 2008** Carpentier, S.F.A., K. **Roy Chowdhury**, C.A. Hurich and R.A. Stephenson: Delineating tectonic units in the Abitibi-Grenville Province, Canada, and Donbas fold-belt, Ukraine, by mapping correlation lengths in Lithoprobe and DOBRE deep reflection data, DSS_08: 13th. Intl. Symp on Deep Seismic Profiling of the Continents and their margins.
- 2008** **Roy Chowdhury**, K.: Imaging and interpreting continental lower crust: from potential problems to probable processes, DSS:08: 13th. Intl. Symp on Deep Seismic Profiling of the Continents and their margins.