

**Paper published:**

1. Small angle x-ray diffraction study of mixtures showing re-entrant nematic phase and induced smectic  $A_d$  phase:  
S. K. Giri, N. K. Pradhan, R. Paul, S. Paul, P. Mandal, R. Dabrowski, M. Brodzik and K. Czuprynski, SPIE, 3319, 149 (1998).

**Papers to be communicated:**

1. Magnetic Susceptibility measurements in two binary mixture systems showing induced smectic  $A_d$  phase:  
N. K. Pradhan and R. Paul to be communicated to Mol. Cryst. Liq. Cryst.
2. Refractive index, density and order parameter of two mesomorphic mixtures showing induced smectic  $A_d$  phase and re-entrant nematic phase:  
S. K. Giri, N. K. Pradhan, R. Paul, S. Paul, P. K. Mandal, R. Dabrowski, M. Brodzik and K. Czuprynski. Mol. Cryst. Liq. Cryst., (to be communicated).
3. Physical properties of four cyclohexane carboxylate liquid crystals I, x-ray diffraction studies:  
N. K. Pradhan and R. Paul, Phase Transition (to be communicated).
4. Physical properties of four cyclohexane carboxylate liquid crystals II, refractive index, magnetic susceptibility and elastic constant measurements:  
N. K. Pradhan and R. Paul, Phase Transition (to be communicated).
5. Physical properties of two nematogenic members of isothiocyanatobenzenes:  
N. K. Pradhan et al. Mol. Cryst. Liq. Cryst., (to be communicated).
6. Magnetic susceptibility and elastic constants of four nematogens:  
N. K. Pradhan, S. K. Giri et al, Mol. Cryst. Liq. Cryst., (to be communicated).

**Papers presented:**

1. Magnetic Susceptibility measurements in two binary mixture systems showing induced smectic  $A_d$  phase: N. K. Pradhan and R. Paul.,  
Accepted at 16<sup>th</sup> International Liquid Crystal Conference, Kent State, June 24-28, 1996, Ohio, USA. Abstract No. D2P.59.
2. Study of liquid crystalline mixture showing re-entrant nematic phase: N. K. Pradhan, R. Paul, S. Paul, R. Dabrowski, and K. Czuprynski.  
Presented at the European Conference on Liquid Crystals- Science and Technology, March 3-8, 1997, Zakopone, Poland. Abstract No. A-11.
3. Small angle x-ray diffraction study of mixtures showing re-entrant nematic phase and induced smectic  $A_d$  phase: S. K. Giri, N. K. Pradhan, R. Paul, S. Paul, P. Mandal, R. Dabrowski, M. Brodzik and K. Czuprynski.  
Presented at the National Seminar on Liquid Crystals, 18-20 Dec. 1997, Jammu. Abstract No.13.
4. Refractive index, density and order parameter of two mesomorphic mixtures showing induced smectic  $A_d$  phase and re-entrant nematic phase: S. K. Giri, N. K. Pradhan, R. Paul, S. Paul, P. K. Mandal, R. Dabrowski, M. Brodzik and K. Czuprynski.  
Accepted at 16<sup>th</sup> International Liquid Crystal Conference, July 19- 24, 1998, Strasbourg, France. Abstract No. P4-198.