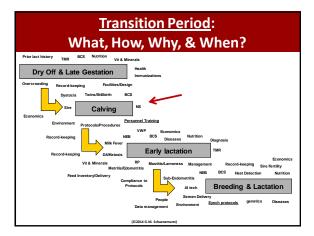
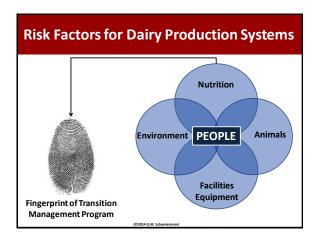
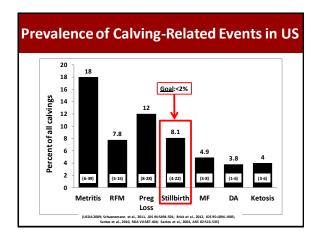


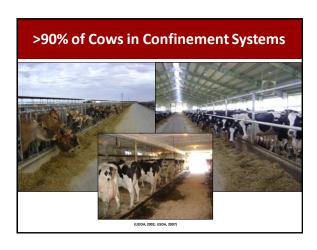
Management and Training of Dairy Personnel with Emphasis on Team Work and Performance

(©2014 G.M. Schuenemann









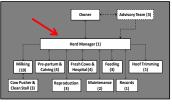
# **Dairy Herd Performance**

- Significant genetic (milk yield) and knowledge progress (nutrition, physiology, therapies) during the last 40 yrs
- Are we training <u>human resources</u> to meet the management demands of modern dairy cows?
- How about facility design?
- At the end of the day, <u>PEOPLE</u> performance will likely determine the <u>Rol</u> (sss, \$\$\$, \$\$\$)

(©2014 G.M. Schuenemann

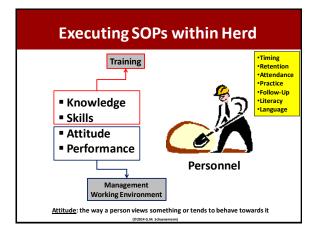
## What Makes an Effective Team?

 We are looking for a herd manager with PEOPLE skills, team builder (dirt under the nails experience) ...



(©2014 G.M. Schuenemann)

# SOPs for Transition Management TMR Audits Parior & Milking Routine Fresh Cows



# **Situations that Require Skillful Managers**

- "No-show" worker, how do you deal with it?
- "This is not my job", how do we improve attitude?
- Trouble-shooting low performance (e.g., PR, SCC)
- How do we pick the "relief" worker?
- **.**..

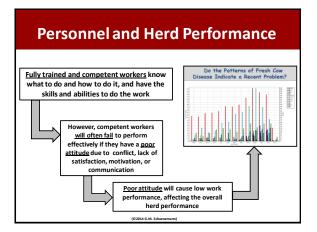
(©2014 G.M. Schuenemann)

# Things that Set the Alarm "On"

- ... you should train the owner on calving management. We agree with the information, but we are told to do something different ...
- ... thank you for your training, but actually the problem around here is the constant disrespect from the herd manager ...

(©2014 G.M. Schuenema

# Knowledge, Skills, and Attitude Matter for Effective Team Work J. Dairy Sci. 96:2671-2880 American Dairy Science Association<sup>8</sup>, 2013. Dairy calving management: Description and assessment of a training program for dairy personnel G. M. Schuenemann, 18. Bas, E. Gordon, and J. D. Workman Department of 'veteriary Preventive Medicine. The Orio Esse University, Cotumbus 43210 ABSTRACT The objective of this study was to assess the effectiveness of a complehensive calving management program designed to unbased the flow of ambled transports based Finding well-qualified workers is a challenging task for dairy farrmers and it is painful to lose them The tests of knowledge and hands-on demonstrations serve as valuable instruments to identify those workers that are skilled and able to follow the on-farm SOPs





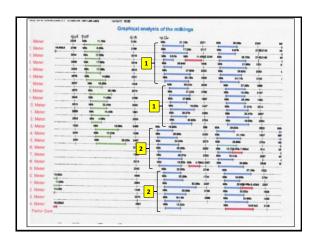
	_		/ Ca Oo V		ĭ				-	
2,000-cow herd		Day	Shift				Night	Shift		
[	PE	GR	SA	TO	]	ES	AM	AB	IG	l
	2041	2987	2526	1774		2041	2987	2526	1774	
	1223		2432	2255		1223	243	2432	2255	
	3132 PE	GR	SA	TO		3132 ES	AM	AB	IG	
	2243	3987	1526	2774						
	1723	3987	3432	3255		1143	387	1346 3122	2224 3335	
	2325		3432	1056		3125		3122	1446	
Week 2	3631			1326		3431			1456	
WCCK 2										
	1428			2143						
	1428 1249			2143 3898		2728			2663 3788	
						2728			2663	→ New Milker
	1249	GR	SA			2728	PG	AB	2663	→ New Milker
[	1249 2132	GR	SA 4526	3898		2728 3749	PG	AB 4026	2663 3788	New Milker
[	1249 2132 PE	GR		3898 TO		2728 3749	PG		2663 3788	New Milker
[	1249 2132 <b>PE</b> 2041	GR	4526	3898 TO 1774		2728 3749 ES 1041	PG	4026	2663 3788 <b>IG</b> 1174	> New Milker
Week 3	1249 2132 PE 2041 1223	GR	4526 432	3898 TO 1774 2255		2728 3749 ES 1041 3222	PG	4026 4302	2663 3788 IG 1174 2155	→ New Milker
Week 3	1249 2132 PE 2041 1223 2425 3231 1928	GR	4526 432	3898 TO 1774 2255 2056 3326 4143		2728 3749 ES 1041 3222 2422	PG	4026 4302	2663 3788 IG 1174 2155 2956	→ New Milker
Week 3	1249 2132 PE 2041 1223 2425 3231	GR	4526 432	3898 TO 1774 2255 2056 3326		2728 3749 ES 1041 3222 2422 1233	PG	4026 4302	2663 3788 IG 1174 2155 2956 3566	→ New Milker

Pei	rsonnel Pe	rformance and Turno	ver
	2000-cow herd Parameters	Costs/Scenarios	
	Milk price, \$/kg	0.41	AL.
	Herd audit, \$	1,000	32.00
	Training (4/yr), \$	1,000	1
Alle	Compliance, %	85% vs 95%	1
1	Turnover, %	5% vs 30%	

# **Assumptions for the Model**

- Personnel Performance: Compliance with milking routine SOP (85% vs 95%)
- Milking SOP: pre-dip/strip/towel/attach/postdip. Re-attachments (first lactation)
- Milk losses were set at 1 kg/cow/d due to lack of udder stimulation
- Turnover: worker/yr leaving the farm (5% vs 30%)
- Adjustment period of 14 d with a 66.5% performance was estimated for each new personnel

(P.2014 G M Schungsmann



# Both Personnel Performance and TO Affect the Bottom Line of Dairy Herds

2000-cow herd	Cows at Risk	Profit	Rol
From Best to Worst	(n)	(\$/yr)	(\$)
95% MPP with 5% TO	110	5,286	1:1.6
95% MPP with 30% TO	165	13,465	1:6.7
85% MPP with 5% TO	307	34,641	1:16
85% MPP with 30% TO	342	39,951	1:18

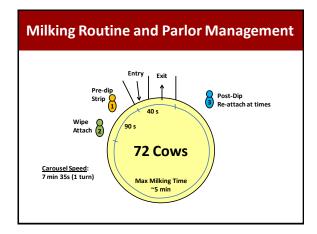
The estimated ROI assumes that: 1) facilities are adequate, 2) participants are willing to learn and apply the newly learned concepts, and 3) the herd audit correctly identifies the needs and the training program correctly addresses them

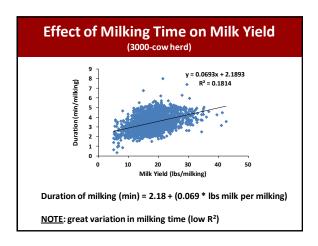
# How Much Does Your Employee Turnover Cost?

- 70%-150% of employee annual wages
- Losses in productivity, time and resources spent in recruitment, selection, and hiring, as well as the orientation and initial training of new personnel

(Billikopf and González, 2009; Schuenemann et al., 20

# ■ 3x (every 8 h) ■ ~90 lbs/cow/d ■ ~140-160 lbs at peak ■ Milking time ■ Doulble-30 parallel ■ Grouping cows by DIM





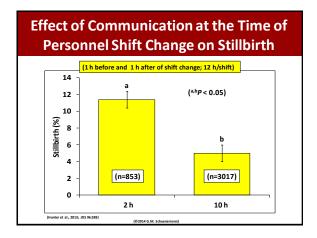
# **Estimating Milking Time**

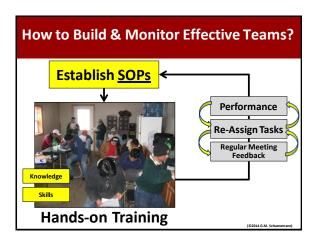
		Mein, 1998
Daily Production	Three milking times	Duration = 2.41 + (0.11 * lbs milk per milking)
Milk Yield (lbs/day)	3 x (lbs/milking)	Milking time (min)
40	13.33	3.88
50	16.67	4.24
60	20.00	4.61
70	23.33	4.98
80	26.67	5.34
90	30.00	5.71
140	46.67	7.54
160	53.33	8.28

(Mein, 1998; http://www.nmconline.org/articles/100lbcow.htm)

# 

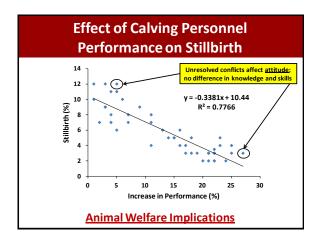


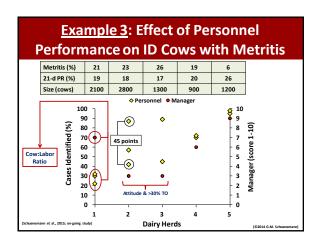




### **Managing the Working Environment** Personnel: Owner/Herd Manager: No resources for the tasks ■ Be on time for your shift Day-off for Christmas or Holiday "No-show" worker Pay raise or bonus (incentives) No cell phone or texting while at work "No-show" worker ■ Pick up trash/clothing from lockers Want to use cell phone ■ Improve milking routine Change of work shift (night vs day) Work as a team and communication ■ Fix gate/water hose ■ High SCC and milk quality Restroom for women ■ Keep accurate/readable records ■ This is not my job! SOPs for safety/treatments Want break SOPs for feeding/handling cows-calves ■ Dryer/washer don't work Clean, clean, clean!

(n = 430 workers; 80 herds)	Internersen	Interpersonal Problems <sup>6</sup>		
Parameter Assessed	Yes	No	<sub>P</sub>	
Knowledge <sup>†</sup> , %	19	21	0.5	
Skills‡, %	32	35	0.6	
Performance*, %	4	23	<0.05	





## **Areas for Consideration**

- Personnel vision loss/impairment
- SOPs with pictures





## **Resources for the Task**





# What the Top 10% of Dairy Herds Do for their Personnel?

- Training and re-training programs (personnel, manager, owner)
- Regular meetings with personnel
- Monitoring performance of personnel
- Herd managers focused on managing the working environment (e.g., conflicts, motivation,
- Offer incentives based on performance and year of service

• ...

# **Example of Economic Incentive**

- Regular pay increases based on performance (Starting at \$9 per hour):
  - 3 months --- add \$0.25 per hour
  - 6 months --- add \$0.25 per hour
  - 9 months --- add \$0.25 per hour
- Incentive: Based on years of service & performance
- Scheme (paid on anniversary day):
  - 2 years ----- 4 x daily pay or 4 days paid vacation
  - 3 years ----- 6 x daily pay or 6 days paid vacation
  - 4 years ----- 8 x daily pay or 8 days paid vacation
  - 5 years ----- 10 x daily pay or 10 days paid vacation
  - 6 years ----- 12 x daily pay or 12 days paid vacation
  - 7 or > years ----- 14 x daily pay or 14 days paid vacation

This example relies on honesty, trust, and objectivity

# For Effective Team Work ..., We All Have a Job to Do



# **Acknowledgements**

- Collaborating dairy farms and personnel
- Practicing veterinarians
- Graduate and undergraduate students
- COBA-Select Sires Research Fellow and the Epperson Scholarship
- SARE-NCR Professional Development Program





